REPORT

Source Area 11
2020 Groundwater Report

Southeast Rockford Groundwater Contamination Superfund Site
Rockford, Illinois

968775

Illinois Environmental Protection Agency

August 2021

CDM Smith

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Section 1
Introduction

CDM Smith Inc. (CDM Smith) prepared this groundwater monitoring report for the Illinois Environmental Protection Agency (Illinois EPA) to document groundwater quality at Source Area 11 (Area 11) of the Southeast Rockford Groundwater Contamination Superfund Site. The site is located in Rockford, Winnebago County, Illinois, as shown in **Figure 1**.

In addition to documenting the Long-Term Remedial Action (LTRA) for the shallow groundwater component, the data being collected will be used for pre-design evaluations for the soil component remedy that may lead to reexamining the existing remedies.

The first two quarterly rounds of groundwater monitoring in 2020 were conducted in accordance with the Quality Assurance Project Plan (QAPP) Addendum for Area 11 Long Term Remedial Action Monitoring and the Sampling and Analysis Plan (SAP), dated March 19, 2014 and prepared by CDM Smith. The QAPP and SAP were updated per letters from CDM Smith to the U.S. Environmental Protection Agency (USEPA) that were dated May 15, 2019 and November 4, 2019. The third and fourth quarterly sampling rounds in 2020 were conducted in accordance with the Final QAPP for Source Area 11 Long Term Remedial Action Groundwater Monitoring and the SAP, dated August 2020 prepared by CDM Smith.

The current groundwater monitoring network includes 19 monitoring wells, 9 of which are sampled during groundwater sampling events with the remaining 10 used only for water level measurements. The monitoring well network is shown in more detail in **Figure 2**

The report focuses on the methods and procedures used during the 2020 quarterly monitoring events, presents the data for the groundwater elevation measurements and quarterly analytical results, and summarizes information from monitoring events conducted from 2011 to 2020. This report discusses the current contaminant migration scenario and updated site conceptual model.

1.1 Area 11 Background Information

Area 11 is located on the northeast corner of Harrison Avenue and Eleventh Street in Rockford, Illinois. The site consists of mixed greenspace and industrial property. The Accurate Metals – Illinois (AMI) facility (formerly Rohr Manufacturing and Rockwell Graphics Systems) is located to the north, and greenspace owned by the City of Rockford (formerly Villa Di Roma restaurant and Rockford Varnish) is located along the southern end of the property. The greenspace portion was purchased by the City of Rockford for use as a storage and laydown area during reconstruction of Harrison Avenue that occurred between 2016 and early 2018.

Potential contaminant sources include eight aboveground storage tanks (AST) that were located east of the former Rockford Varnish facility, leaking tanks, above ground pipes, and a bunker reportedly used by Rockford Varnish located near a former railroad spur. The ASTs were removed sometime between July 2003 and April 2005 based on Google Earth Pro historical imagery. The specific chemicals stored in individual tanks are not known. **Figure 3-23** from the "Final Remedial Investigation Report for the Southeast Rockford Source Control Operable Unit" dated July 25, 2000, shows the historical site features. Following the City's purchase of the property in 2014, all of the asphalt and above ground structures (and some

shallow subsurface structures), were removed prior to use during the Harrison Avenue construction that started in 2016. Some concrete foundation walls in the vicinity of the former buildings and ASTs are known to remain, and it is generally believed that most other subsurface structures remain.

The geologic stratigraphy at Area 11 is fine- to medium-grained sand down to about 30 feet below ground surface (bgs), followed by medium- to coarse-grained sand with gravel down to about 75 feet bgs. Below this is a silt and clay layer believed to be around 10 to 15 feet thick. The depth to groundwater is approximately 30 feet bgs and varies seasonally.

Groundwater in the unconsolidated material at Area 11 enters the eastern edge of the site flowing in a northwesterly direction before eventually turning west, and then west-southwest as it exits the site's western boundary. Further downgradient, flow directly to the southwest has also been observed.

This southwest flow has also been documented at Area 9/10. This gradual shift in groundwater flow from the northwest to the southwest in the vicinity of Area 11 is responsible for the "banana" shape of the historic groundwater contaminant plume. This plume was documented by CDM Smith during the remedial investigation phases and is critical to understanding contaminant migration patterns in groundwater at Area 11.

In accordance with the Source Control Operable Unit Record of Decision (ROD) dated June 11, 2002, the Area 11 remedy selected for contaminated soil is soil vapor extraction (SVE). The remedy for "leachate" (i.e., shallow, contaminated groundwater) is no action, with groundwater monitoring and institutional controls. The ROD did not propose a remedial alternative for the treatment of leachate on-site because modeling indicated that groundwater would meet standards by the time it exited the source area. However, the ROD indicates that an air sparging component can be added to the remediation system if an improvement in groundwater quality is not observed.

Contaminants of concern (COC) listed in the ROD include benzene, ethylbenzene, methylene chloride, toluene, trichloroethene, and xylenes. However, based on the magnitude of the remediation goal (RG) exceedances in groundwater samples collected since 2008, ethylbenzene, toluene, and xylenes (ETX) are generally considered to be the primary COCs.

Three rounds of pre-design investigation activities were conducted between 2007 and 2018. The first two rounds of investigation in 2009 and 2013 occurred prior to the Harrison Avenue construction conducted by the City of Rockford in 2018. One common objective was to identify and characterize the source material locations in the vadose zone (i.e., where waste material was deposited) that are the targets of the SVE soil component remedy. However, the precise locations of the vadose contamination have not been located for various reasons including site access issues, buried debris, and the assumed small footprints of the source material. The number of individual sources present at Area 11 is not known but it is believed that at least several exist based on groundwater results. The Phase II Pre-Design Technical Memorandum dated September 10, 2013 contains a comprehensive discussion of the nature and extent of groundwater contamination and the possible source locations at Area 11.

Pre-design objectives that were successfully achieved included defining the extent of groundwater contamination at, and downgradient of Area 11 for the leachate component remedy. As part of the pre-design activities, quarterly groundwater sampling was conducted (with several interruptions from 2011 through 2013), before changing to semiannual

sampling in August 2014 for the start of the leachate component long term remedial action (LTRA). These events have resulted in the soil component of the selected remedy remaining in the remedial design (RD) phase while the leachate component has progressed into LTRA.

From 2015 through 2018, semiannual monitoring was not possible due to various factors. For example, in 2015, only one round of groundwater sampling was performed due to contract issues and in 2016, 2017 and 2018, sampling activities were impacted by the Harrison Avenue construction, allowing only one round of groundwater sampling to be completed. Semiannual sampling resumed in 2019 following completion of the Harrison construction.

The third round of pre-design field activities was conducted in October 2018. This phase of work was conducted after the area adjacent to Harrison Avenue had been cleared of buildings, structures, pavement, and road construction debris. The purpose of the activities was to locate and characterize contaminant source material in the Area 11 vadose zone after the removal of obstructions that impacted previous investigations. This phase of work was narrowly focused on areas upgradient of highly contaminated groundwater, and downgradient of suspected point sources of contamination that had become accessible due to the completion of the construction activities. The planned activities included two trenches and one shallow test pit to be excavated followed by direct push soil and groundwater sampling. Details of the activities are documented in the Technical Memorandum dated December 31, 2018. This third phase of pre-design work was not successful in identifying the location of contaminant source material at Area 11, however, the removal of much of the impervious surfaces in that area does appear to have influenced the concentrations of contaminants in groundwater, as a decrease in concentrations has been observed since the completion of the construction. During the field activities, monitoring well MW-007 was installed at a location immediately downgradient of Area 11.

Based on the groundwater data collected from 2017 through 2019, it was determined that while contaminant concentrations have decreased within Area 11, in the areas where barriers to infiltration have been removed, contaminants (primarily ETX) are now migrating downgradient at levels above the remediation goals. This contamination continues to attenuate rapidly with distance; however, this is a significant difference from what is shown in the basic conceptual site model (CSM). It was recommended that quarterly groundwater monitoring be conducted for a minimum of two years to more fully evaluate the revised CSM for Area 11. In addition to continuing to monitor for volatile organic compounds and 1,4-dioxane, the number of water level measurement locations was increased to enhance the understanding of the hydrogeology. These data provide input to refine the remedial decisions for leachate and soils within Area 11.

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Section 2
Field and Analytical Activities

The current groundwater monitoring network includes 19 monitoring wells, as shown in **Figure 2**. Depth to groundwater measurements and groundwater samples were collected from nine monitoring wells and depth to groundwater measurements only were collected from 10 monitoring wells. **Table 1** provides a summary of the groundwater monitoring sampling dates and wells sampled for the 2020 events. The first two quarterly events were performed under the previous QAPP and included 12 monitoring well locations for depth to groundwater measurements. Eight of those well locations were also used for groundwater sample collection. **Table 2** provides the updated monitoring well details.

2.1 Groundwater Elevations

Depth to groundwater measurements were collected manually at each well prior to purging and sample collection, except for the September 2020 event, where applicable. Prior to the September 2020 event, three water level only monitoring wells were inaccessible and this round of water measurements was subsequently collected in October 2020.

An electronic water level indicator was used and decontaminated before and after each use. Potentiometric surface maps were prepared from the groundwater elevation data collected during the October and November quarterly water level events in 2020, using data from the 18 monitoring wells screened in the upper portion of the unconsolidated materials (**Figures 3 and 4**). With the larger set of monitoring points during October and November, these events present a more accurate picture of groundwater flow patterns. The groundwater elevation data used to compile these maps is provided in **Table 3.**

2.2 Sampling Methods

The Area 11 monitoring wells were each purged using a submersible pump and pump controller capable of operating at low flow purging rates. All wells were purged and sampled in general accordance with the applicable SAP.

For all wells sampled, field measurements of pH, temperature, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential were monitored with a flow-through multiparameter probe to identify the point stabilization was observed during purging. Parameter readings were recorded at 5-minute intervals and purging continued until the field parameters were observed to be within stable range for three consecutive readings. The stabilization requirements are provided as follows:

- pH: ±0.25 standard units
- Dissolved oxygen: ±10 percent
- Specific conductance: ±50 millisiemens per centimeter (mS/cm) centimeter
- Turbidity: less than 5 nephelometric turbidity units (NTU) or ±10 percent
- Temperature: ±0.5 C°

- Oxidation-reduction potential: ±10 millivolts (mV)

Final readings taken prior to sampling are provided in **Table 4,** and original data sheets listing all readings recorded during purging are provided in **Appendix A**.

Quality control samples specified in the QAPP for each of the groundwater sampling events included one field duplicate per 10 (or fewer) investigative samples, one field blank per 10 (or fewer) investigative samples collected using non-dedicated equipment, one trip blank for each cooler shipped containing aqueous samples for VOC analysis and 1,4-dioxane analysis by Region 5 Analytical Service Branch (ASB) laboratory, and one matrix spike/matrix spike duplicate (MS/MSD) per 20 (or fewer) samples.

The field duplicate frequency was met for all parameter groups for all four quarterly events. The field blank collection frequency was met for 1,4-dioxane and VOCs for all four quarterly events, however field blank collection frequency was not met for the attenuation parameters for the first two quarterly events. Even though the frequency criteria were not met for anions, methane and alkalinity, data quality objectives are not compromised as these analytes are not constituents of concern and the field blanks that were collected for them did not have high detections of these analytes. Field blank contamination actions are discussed in the individual validation reports. A trip blank was sent with each cooler containing samples for VOC or 1,4-dioxane analysis.

Field instruments were calibrated daily to the appropriate standards, in accordance with the SAP. The field samples collected for dissolved ferrous iron were run through a filter attached to the sample tubing and analyzed in the field with a field test kit. New or dedicated sample tubing was used for each discrete sampling location. The groundwater samples selected for laboratory analysis were collected directly from the pump discharge tubing into pre-preserved sample containers. The sample containers were provided by a commercial laboratory.

2.3 Analytical Methods and Laboratories

Groundwater samples for 2020 were analyzed for Target Compound List (TCL) VOCs by U.S. EPA Contract Laboratory Program (CLP) laboratories under Statement of Work (SOW) SOM02.4 or VOCs by Region 5 ASB laboratory using Standard Operating Procedure (SOP) MS023. Groundwater sample analysis of 1,4-dioxane was performed by the ASB laboratory in accordance with ASB SOP MS035 for low-level 1,4-dioxane, or by CLP. The U.S. EPA CLP used Chemtech Consulting Group and Pace Analytical Services laboratories for organic sample analyses. Tech Law Inc. (Tech Law) Environmental Services Assistance Team (ESAT), provided services to Region 5 ASB and STAT Analysis Corporation (STAT), Chicago, Illinois and Eurofins TestAmerica, Savannah, Georgia provided anions, alkalinity, and methane analyses. Field analysis of dissolved ferrous iron was performed in accordance with HACH Method 8146.

2.4 Data Evaluation and Usability

A data evaluation/validation review was conducted on the analytical data for the four 2020 quarterly groundwater monitoring events. Quality assurance objectives for measurement data are expressed in terms of precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS). The PARCCS parameters characterize the quality of the data and are called data quality indicators (DQIs). The DQIs provide a mechanism for

ongoing quality control (QC) and evaluating and measuring data quality throughout the project. The measurement performance criteria are outlined in the 2014 QAPP/SAP, modified per letters from CDM Smith to U.S. EPA dated May 15 and November 4, 2019, and the August 2020 QAPP/SAP update.

Reviewing the collected data is necessary to determine if data measurement objectives established in the QAPP were met. In general, the following data measurement objectives were considered:

- Achievement of analytical method and reporting limit requirements
- Adherence to and achievement of appropriate laboratory analytical land field QC requirements
- Achievement of required measurement performance criteria for DQIs (the PARCCS parameters)
- Adherence to sampling and sample handling procedures
- Adherence to the sampling design and deviations documented on field change notifications, if required

Data verification, data validation, and data assessment were used to verify adherence to the QAPP procedures and requirements and achievement of the measurement performance criteria of the PARCCS parameters. These assessments were used to reconcile the planned objectives detailed in the QAPP against the investigation results. The outputs serve to verify that the collected data are of sufficient quality to support their intended use.

There were 25 sample delivery groups from the CLP laboratories, Tech Law, STAT and Eurofins. Validation was performed following the Stage 2B validation requirements, EPA's current National Functional Guidelines, current CLP SOWs, and the Region V Organic CLP validation SOP 83074-8-33-601-SO-1143.R1. In accordance with the QAPP, the Tech Law, STAT and Eurofins data were validated by CDM Smith at a Stage 2B Validation/Verification level. The CLP data was validated by the USEPA. CDM Smith reviewed the CLP validation reports and verified the sample results and qualifiers.

The detailed data evaluation/validation discussion is provided as a preface to the laboratory data reports in **Appendix B**. Some analytes were qualified as estimated (J), estimated biased high (J+) or biased low (J-) and/or non-detect (U) or estimated non-detect (UJ), based on validation criteria. Specific details on qualifications are provided in the individual data validation reports.

All field duplicate relative percent difference (RPD) results were within appropriate criteria except for field duplicate pair A11-MW007-201201/A11-MW007-201201-D. Sample results for isopropylbenzene, n-propylbenzene, sec-butylbenzene, 1,3,5-trimethylbenzene, benzene, naphthalene, and n-butylbenzene were qualified as estimated (J/UJ) based on RPD criteria or absolute difference criteria. For this field duplicate pair, the RPD criteria was met for the anions, alkalinity, and methane results.

A review was conducted on the VOC analyses as the sample concentrations vary enough to be suspect based on past sampling results. The COCs were evaluated for possible sample label issues and a comparison was done between samples that were collected on the same day. The

COCs indicated no mislabeled samples and the sample comparison showed no other sample that had similar results comparable to A11-MW007 or A11-MW007-D. A review of the raw laboratory data and chromatograms showed no obvious system errors. The VOC sample results that did not meet RPD criteria are estimated following data validation guidance and there is the potential a sample mix up may have occurred in the field or the laboratory. The results should be used with caution and future sampling events at these locations will be conducted to evaluate the variable sample results.

In summary, all the validated and reviewed data are suitable for their intended use for site characterization. No data were rejected for the 2020 sampling events. Sample results that were qualified as estimated are usable for project decisions. Results that have been rejected from previous sampling years are not usable for project decisions. The laboratory and validation qualifiers are provided in the data tables referenced in **Section 3**.

Section 3
Results

This section presents the results of the four quarterly groundwater sampling events in 2020. The Area 11 monitoring wells include two wells upgradient (MW-001 and MW-130A), four wells within Area 11 (MW-002, MW-003, MW-004A, and MW-004B) and three wells downgradient of Area 11 (MW-005, MW-006, and MW-007). Downgradient well MW-007 was installed in 2018. Upgradient well MW-130A was added to the well network for the September and December sampling events. Two of the wells within Area 11 (MW-004A and MW-004B) are adjacent, with MW-004A screened in the shallow portion of the aquifer, and MW-004B screened 45 feet lower in order to monitor the vertical extent of the groundwater contamination within the source area. Because the primary COCs are less dense than water, MW-004B also provides an indication of diffused sitewide contamination.

The monitoring well sample concentrations for VOCs were compared to the remediation goals that were established in the ROD. The sample concentrations for 1,4-dioxane were compared to the Illinois EPA groundwater quality Class I potable groundwater standard provided in Illinois Administrative Code (IAC) 35, 620.410.

3.1 Hydraulic Results

Groundwater elevation measurements were collected prior to the start of each quarterly sampling event. The dates of data collection and the water elevations measured for the 2020 groundwater monitoring events are presented in **Table 3**. Potentiometric surface maps are presented for the last two quarterly events in **Figures 3 and 4.** These events were selected because they present a more complete picture of groundwater flow patterns. Groundwater in the unconsolidated material enters the eastern edge of Area 11, flowing in a northwesterly direction before turning west-southwest as it exits Area 11 along the western boundary. Due to this gradual shift in groundwater flow direction, two gradients that run perpendicular to groundwater flow are estimated for Area 11. From the eastern boundary to the shift in direction near Harrison Avenue, groundwater gradients are estimated using elevation data from MW-32 (as the upgradient location), and MW-004A (as the downgradient location). After the flow direction shifts, the gradients are estimated using elevation data from MW-0007 (as the upgradient location), and MW-126A (as the downgradient location).

The third 2020 quarterly groundwater elevations were measured on October 15, 2020. The groundwater flow direction was measured predominantly to the west, as shown in **Figure 3**, with the bend in flow direction occurring near Harrison Avenue. This quarterly event includes water level measurements from 18 monitoring wells, and the groundwater gradient from MW-32 to MW-004A was approximately 0.003971 feet/feet. The gradient from MW-007 to MW-126A was approximately 0.001411 feet/feet, which is consistent with the historical average groundwater gradients.

The fourth 2020 semiannual groundwater elevations were measured on November 30, 2020. The groundwater flow direction was measured predominantly to the west, as shown in **Figure 4**, with the bend in flow direction occurring near Harrison Avenue. This quarterly event includes water level measurements from 18 monitoring wells. The groundwater gradient from MW-32 to MW-004A was approximately 0.003911 feet/feet, which is consistent

with the October 2020 gradient. The gradient from MW-007 to MW-126A was approximately 0.001360 feet/feet, which is consistent with the historical average groundwater gradients.

3.2 Laboratory Analytical Results for VOCs

The laboratory analytical results for the monitoring wells were compared to the remediation goals (RG) from the OU3 ROD and to the "Groundwater Quality Standards for Class I: Potable Resource Groundwater, Title 35, Illinois Administrative Code (35 IAC), Section 620.410". **Table 5** summarizes VOCs detected during the 2020 quarterly groundwater monitoring events. **Table 6** summarizes the VOCs that have been detected in at least one sample collected during the baseline, or subsequent, monitoring events for each well. Detected compounds are shown in bold type, and compounds exceeding their RG are shaded. For sample locations where an investigative and field duplicate sample were analyzed, if one of the two (or both) exceeds an RG for a parameter, the location is described as exceeding RGs in the results discussion. Complete analytical results and data validation reports are provided in **Appendix B**.

The groundwater monitoring investigative samples and associated QC samples were analyzed and the data validated as described in **Sections 2.3** and **2.4**. Due to the differences in analytical methods for VOCs used by the different laboratories (CLP and ASB), the VOC parameter lists analyzed by each of the different laboratories are slightly different. In **Tables 5 and 6,** any parameters not analyzed for a particular sampling event because of laboratory assignment are designated with "NA" for not analyzed. MW-130A was added to the monitoring well network in August 2020.

A recurring issue is that high concentrations of ETX compounds (typically toluene) in samples collected from MW-002 and MW-004A routinely require dilution which results in elevated detection limits for all other compounds that are greater than their respective RG. For the 2020 sampling year, this primarily occurred for the compounds with the lower RGs. Because of this "masking" effect, it is not possible to determine if other compounds are present above their RGs in the samples.

3.2.1 First Quarter (March 2020) Volatile Organic Compounds Exceeding Remediation Goals

During the March 2020 groundwater sampling event, eight Area 11 wells were sampled. MW-002 continues to have the most compounds exceeding RGs at Area 11. Ethyl benzene was detected at 10 times the RG of 700 µg/L, toluene was detected at 79 times the RG of 1,000 µg/L, and xylenes were detected at two- and one-half times the RG of 10,000 µg/L. Well M-3 contained ethyl benzene at two times the RG, and xylenes slightly over the RG. Well MW-004A contained toluene at 45 times the RG. Ethyl benzene was detected in both the sample and field duplicate at MW-007 slightly over the RG. The compound 1,4-dioxane was detected at slightly over the RG of 7.7 µg/L in MW-003 and MW-004B (**Table 5**).

3.2.2 Second Quarter (June 2020) Volatile Organic Compounds Exceeding Remediation Goals

Eight Area 11 monitoring wells were sampled during the June 2020 sampling event. The most contaminated well, MW-002, had ethyl benzene at 9 times the RG, toluene at 68 times the RG and xylenes at 2.5 times the RG. Additionally, vinyl chloride was detected at two times the RG in MW-002. The sample from MW-004A contained toluene at 52 times the RG and tetrachloroethene slightly above the RG. The sample and field duplicate from MW-007

contained ethyl benzene slightly over the RG and MW-005 contained bromodichloromethane at two times the RG of 0.2 µg/L. The compound 1,4-dioxane was detected at slightly over the RG in MW-003, MW-004B and MW-005 and at two times the RG in MW-001 (**Table 5**).

3.2.3 Third Quarter (September 2020) Volatile Organic Compounds Exceeding Remediation Goals

For the third quarter monitoring event, nine wells were sampled because MW-130A was added to the monitoring well network in August 2020. In well MW-002, ethyl benzene was detected at 12 times the RG, toluene was detected at 39 times the RG, and xylenes were detected at 3 times the RG. Well MW-004A contained toluene at 43 times the RG. The sample and field duplicate from MW-007 contained ethyl benzene that was three and a half times the RG. The compound 1,4-dioxane was detected at slightly over the RG in MW-004B, MW-005 and MW-006 (**Table 5**).

3.2.4 Fourth Quarter (December 2020) Volatile Organic Compounds Exceeding Remediation Goals

All nine Area 11 monitoring wells were sampled during the December 2020 quarterly sampling event. During all four quarters of the 2020 sampling, MW-002 continued to have the most compounds exceeding RGs at Area 11. For the fourth quarter, ethyl benzene was detected at 15 times the RG, toluene was detected at 33 times the RG, and xylenes were detected at four times the RG. MW-004A contained toluene at 34 time the RG. The MW-007 sample and field duplicate contained ethyl benzene at four times the RG, and benzene was detected in the field duplicate only at eight times the RG of 5 µg/L. The compound 1,4-dioxane was not detected above the RG in any well for this sampling round. (**Table 5**).

3.2.5 Comprehensive Compounds Exceeding Remediation Goals

The concentrations of different contaminants in groundwater have varied since 2011 in any given monitoring well, as shown in **Table 6**. The groundwater contamination in Area 11 is primarily ETX compounds, with toluene being the most conspicuous because of the magnitude of its RG exceedances. Historically, several chlorinated VOCs have been detected over their RGs in samples collected from Area 11. A recurring issue has been that due to the high levels of ETX compounds, samples may require dilution, and this results in higher detection limits for other analytes, often above their RG. Due to this masking effect, it is not possible to determine if these compounds are actually present above their RGs in the diluted samples. At the end of 2020, monitoring well samples have been reliably analyzed for 1,4-dioxane for five events, one in 2019 and the four quarterly events in 2020. A discussion of its presence in these groundwater samples is included in this section.

An additional background well, MW-130A, was added to the monitoring well network in August 2020. This well is located immediately downgradient of Area 4. The compounds detected during the September and December sampling rounds were 1,1,1-trichloroethane (TCA), 1,1-dichoroethene (DCE) and 1,4-dioxane near the reporting limits, and well below the RGs.

Monitoring well MW-001 is also considered an upgradient, background well for Area 11. Samples collected from this well during five events from 2011 to 2012 contained TCA, DCE, and trichloroethene (TCE) at concentrations just above their respective RGs. Starting in December 2012, concentrations of these compounds decreased rapidly to low double- and single-digit levels that have remained consistently below RGs. It is believed that the decrease

in concentrations of chlorinated VOCs is attributable to the Area 4 hydraulic containment leachate component remedy that operated from December 2009 to October 2018. See **Figure 1** for the location of Area 4 relative to Area 11. The ETX compounds have been detected sporadically since 2011 at very low levels, near or below the analytical detection limits. The compound 1,4-dioxane was detected above the RG in two of the five sampling events and was not detected above the RG for the last two events of 2020. The average of the 1,4-dioxane detections for the five sampling events is approximately 8 micrograms per liter (µg/L), which is slightly above the RG of 7.7 µg/L.

Continuing in a generally hydrogeologic downgradient order, the well locations with the highest concentrations of contaminants continue to be MW-004A and MW-002. These wells are primarily contaminated with toluene, and concentrations have remained above the RG since 2011. In 2020, toluene concentrations in MW-002 for the first two sampling quarters decreased to approximately three times lower than the high concentrations in 2016 and 2017. The concentrations continued to decrease for the last two quarters to six times lower than previous high levels. The 2016 and 2017 high concentrations were measured prior to the Harrison Avenue construction and removal of impervious surfaces in the area.

Concentrations of ethylbenzene and xylenes in MW-002 remained at levels over their RGs since 2012, showing decreasing concentrations through 2019. Beginning in 2020, the concentrations of both compounds have gradually increased to levels two to three time the previous highest levels. In addition, benzene was detected once in a sample collected from MW-002 in June 2013, at a concentration just over its RG of 5 µg/L. Vinyl chloride was detected in June 2020 at a concentration of 4.4 µg/L, which is two times the RG of 2.0 µg/L. The compound 1,4-dioxane was not detected above the RG of 7.7 µg/L when analyzed in any of the 2019 or 2020 sampling events.

Toluene concentrations in samples collected from MW-004A through 2020 have decreased from a maximum of 230 times the RG (230,000 µg/L) in June 2013, to the December 2020 concentration of 34 times the RG (34,200 µg/L). The most extreme drop in concentration was between April 2016 and March 2017 when toluene concentrations dropped by half from 150 times the RG (150,000 µg/L) in April 2016, to 79 times the RG (79.000) in March 2017. Since 2017, toluene concentrations have fluctuated, but continued to decrease. Both ethylbenzene and xylenes concentrations have continued to decrease from their initial, higher levels in 2011 and 2012. The xylenes concentrations in samples collected from MW-004A have been below the RG of 10,000 µg/L since 2012, and the ethylbenzene concentrations have been below the RG of 700 µg/L since 2013. For the 2020 quarterly sampling events, the detection limits for 1,4-dioxane, ethylbenzene and xylenes were below their respective RGs, so the reporting of these compounds was not impacted by sample dilutions. The compound 1,4-dioxane was not detected above the RG in any of the 2019 or 2020 sampling events when analyzed.

Samples collected from MW-004B are similar to those collected from background wells MW-001 and MW-130A, with low double- and single-digit detections of several chlorinated compounds considered to be generally representative of site-wide groundwater quality. The steady decrease in TCA concentrations since 2011 is at least partially attributable to the Area 4 leachate component remedy. The compound 1,4-dioxane was detected above the RG in four of the five sampling events where analyzed. The average of the 1,4-dioxane detections for the five sampling events is approximately 10 µg/L, which is above the RG of 7.7 µg/L and is considered representative of 1,4-dioxane concentrations in site-wide groundwater.

MW-003, located just south of MW-002, has not shown significant ETX contamination since September 2012, however, the May 2019 and March 2020 sampling events showed a spike in total xylene concentration slightly over the RG. Additionally, in March 2020, the ethylbenzene concentration increased from well below the RG to twice the RG (1,500 µg/L). Ethylbenzene concentrations in this well are typically well below the RG of 700 µg/L. The average of the 1,4-dioxane detections for the five sampling events is approximately 8 µg/L, which is slightly above the RG of 7.7 µg/L. MW-003 is generally not believed to be directly downgradient of any known Area 11 source(s).

MW-007, the newest downgradient monitoring well installed in 2018, is directly west and downgradient of MW-002, as shown in **Figure 2**. To date, eight rounds of samples have been collected from this well with ethylbenzene above its RG for all sample events. Ethylbenzene concentrations have fluctuated ranging from 9.5 times the RG (6,700 µg/L) in November 2018, down to two times the RG (1,420 µg/L) a year later in November 2019 and increasing in 2020 to five times the RG (3,660 µg/L). Xylenes were detected above the RG for the first event and declined to levels approximately half the concentration of the RG during both 2019 sampling events. In 2020, xylenes increased and were detected at approximately two times the 2019 levels, but still below the RG. Toluene was detected below the RG in November 2018, but not detected in 2019 or 2020, despite being a relatively short distance downgradient from MW-002 with its high concentrations of toluene. Benzene was reported at eight time the RG in the field duplicate (44.3 µg/L) and was non-detect in the sample in December 2020. The results are considered estimated because the overall agreement between sample and field duplicate was poor. The data from 2018 and 2019 indicate that sample dilutions may have resulted in the masking of benzene detections in these earlier sampling events. The compound 1,4-dioxane was not detected above the RG when analyzed in any of the 2019 or 2020 sampling events.

Monitoring wells MW-005 and MW-006 are located downgradient of Area 11. Samples collected from these wells have contained a combination of site-wide chlorinated compounds, and ETX compounds at low double- and single-digit concentrations. The only compounds detected above RGs in either well are 1,4-dioxane, bromodichloromethane and benzene. Bromodichloromethane has been detected above the RG several times in both wells. Bromodichloromethane is a trihalomethane, generally referred to as a disinfection by-product resulting from chlorine treatment of drinking water that has been routinely detected above its RG in the Area 4 background monitoring well. Its detection is not considered to be attributable to either source area. Benzene has been detected once in samples collected from MW-005, and a number of times in MW-006, including once at a concentration above its RG of 5 µg/L in May 2019. Benzene is not known to be related to Area 11, but the possibility still exists that it is related. The average of the 1,4-dioxane detections for the five sampling events for MW-0005 is 6.8 µg/L and 4.5 µg/L for MW-0006, both below the RG of 7.7 µg/L.

3.3 Analytical Results for Attenuation Parameters

The analytical results for the attenuation parameters methane, nitrate, sulfate, and alkalinity are summarized in **Table 7.** The results of the dissolved ferrous iron field screening were provided earlier, in **Table 4**. The laboratory analytical results for the attenuation parameters were compared to the Groundwater Quality Standards for Class I: Potable Resource Groundwater, Title 35, 35 IAC, Section 620.410, where applicable. Attenuation parameter laboratory data was initially collected in August 2014, then sporadically until 2020, when data was collected for each quarterly sampling event.

The majority of wells had low- to non-detect levels of nitrate, with the exception of MW-005 and MW-001. In September and December 2020 nitrate slightly exceeded the RG in MW-001 and in December 2020 nitrate exceeded the RG in MW-005. Overall, alkalinity levels are consistent between wells over time, with MW-006 and MW-007 having slightly higher alkalinity concentrations in 2020 than previously detected. Sulfate levels are also fairly consistent between wells. Over time MW-002, MW-003 and MW-007 have had the lowest sulfate concentrations. No wells exceeded the RG for sulfate.

The majority of wells in Area 11 had very low-level methane detections, near or just above the reporting limits. The wells with relatively higher methane concentrations are MW-002, MW-003 and MW-007. MW-002 had detections ranging from approximately 3 mg/L in 2014, to 31 mg/L in December 2020. MW-003 had detections ranging from approximately 1 mg/L in 2014, to 12 mg/L in March 2020. The newest downgradient well, MW-007, had detections ranging from 4 mg/L to 31 mg/L during the period from November 2018 to December 2020.

The dissolved ferrous iron field screening data for the four sampling events in 2020 are presented in **Table 4**. The screening data results ranged from non-detect in MW-004B and MW-005, to 4.98 mg/L in MW-007. The wells that consistently showed dissolved ferrous iron concentrations above 2 mg/L during 2020 are MW-002, MW-003, MW4A, MW-006 and MW-007.

In addition to changes resulting from the removal of the asphalt parking lot, the attenuation data provide support for degradation being a significant component of the decreasing concentrations observed at this site. MW-004A appears to be iron- to sulfate- reducing, while MW-002 and MW-003 are methanogenic. These conditions are indicative of significant degradation/consumption of carbon sources (e.g., in this case, the ETX contaminants) and depletion of electron donors, which provides further evidence of biodegradation.

Section 4
Conclusions

This report summarizes the information obtained during the quarterly groundwater monitoring events in 2020 at Area 11. Data are being collected to document the leachate component LTRA and to obtain data that will support further pre-design work on the soil component.

This was the first year of quarterly monitoring events planned to provide input to an updated CSM for Area 11. This update to the CSM was recommended due to the changes in surface features at Area 11, completed in 2016, and the completion of the remedial action at upgradient Area 4 in 2018. Based on groundwater data from 2017 to 2019, it was hypothesized that hydrogeologic and contaminant migration patterns have been influenced by these changes, altering the previous CSM. The 2020 data from this first year of quarterly monitoring support this hypothesis.

The data being collected will be used to evaluate the new CSM at the site. This evaluation will provide input to refine the remedial decisions for both the leachate and soil components of Area 11 and could eventually lead to a ROD modification. At this time, the data being collected is adequate for its intended use; however, additional pre-design investigation activities such as soil borings and monitoring well installation may be necessary to support a ROD modification.

4.1 Hydraulic Results

Groundwater levels were measured for all four quarterly groundwater sampling events in 2020. The updated QAPP was approved in August 2020, which increased the number of wells and the coverage of the Area 11 monitoring well network for the third and fourth quarterly events. Potentiometric surface maps were prepared for these two quarterly events to provide a more accurate picture of the potentiometric surface. **Table 3** provides a summary of the groundwater elevation measurements for the 2020 sampling events, while incorporating the updated monitoring well survey information. **Figures 3 and 4** provide the potentiometric surface maps for the two 2020 quarterly events. Groundwater gradients across Area 11 are relatively flat, with a predominantly westerly flow direction. The gradients as the groundwater enters Area 11 on the eastern edge and trends northwest are slightly higher than the gradients as the groundwater exits the site after changing direction and trending west-southwest. The overall groundwater flow is consistent with historic trends.

4.2 Monitoring Well Results

The Area 11 groundwater contamination is primarily located east of 11th street and in the upper portion of the aquifer. This is to be expected with the more prevalent, and lighter, ETX contaminants. This assessment has been confirmed by the previous pre-design investigations conducted in 2008 and 2013. The construction along Harrison and 11th was completed in 2016 which resulted in the removal of significant impervious surfaces in this area of higher contaminant concentrations. The most recent pre-design investigation in 2018 did not identify a vadose zone contaminant source in this area. An additional downgradient

monitoring well (MW-007) west of 11th Street was installed in October 2018, and an existing upgradient monitoring well (MW-130A), were both added to the monitoring well network.

After the installation and sampling of monitoring well MW-007, it was apparent that contamination above the RG is present in the groundwater downgradient of the source area. However, contaminant concentrations are attenuating rapidly with distance based on a comparison of concentrations in samples collected from MW-002 and MW-007 through the end of 2020.

In downgradient well MW-0007, ethylbenzene concentrations have fluctuated, ranging from 9.5 times the RG in November 2018, down to two times the RG in November 2019, and increasing in 2020 to five times the RG. Xylenes were detected above the RG in 2018, declined to below the RG in 2019, and increased in 2020 to approximately two times the 2019 levels, but still below the RG. Benzene was detected at eight times the RG in the field duplicate and was non-detect in the sample in December 2020. The overall agreement between sample and field duplicate was poor so the results remain suspect and are considered estimated. These fluctuations may be due to slugs of contamination moving slowly through the unconsolidated formation. This is likely due to the removal of the impervious surfaces, as well as the influence of precipitation events.

Additional evidence that the removal of the asphalt allows increased infiltration of precipitation, periodically flushing soil contaminants into the groundwater is seen at MW-003. This well, located just south of MW-002, has not shown significant ETX contamination since September 2012. However, the May 2019 and March 2020 sampling events showed a spike in total xylene concentration slightly over the RG. Additionally, in March 2020, the ethylbenzene concentration increased from well below the RG, to twice the RG, and decreased to below the RG for the last three sampling events.

From 2017 through 2020, toluene concentrations in samples collected from MW-004A and MW-002 have decreased significantly in a manner not previously observed at Area 11. It is believed that the cause of the sudden reduction in toluene concentrations in MW-004A between April 2016 and March 2017and in MW-002 between November 2018 and May 2019, is related to the removal of all asphalt surfaces from the site in 2016. In contrast, concentrations of ethylbenzene and xylenes in MW-002 remained at levels over their RGs since 2012, showing decreasing concentrations through 2019. However, beginning in 2020, the concentrations of both compounds have gradually increased to levels two to three time the previous highest levels. This same pattern was observed at MW-007, as previously discussed. It is likely groundwater with much lower toluene concentrations that continues to migrate from MW-004A downgradient to MW-002. The groundwater patterns seen in MW-002 appear to migrate downgradient to MW-007. The exact attenuation and transport processes responsible for these significant changes in concentrations is not known but will continue to be evaluated.

The parameter 1,4-dioxane has been reliably analyzed for five sampling events in all wells, except MW-130A which has data for two events. The data from the 2020 quarterly sampling detected 1,4-dioxane at least once in all Area 11 monitoring network wells. Over the five events, five wells had concentrations that exceeded the RG at least once. The wells that have the most detections and highest concentrations are wells MW-001, MW-003 and MW-004B, which are all not directly impacted by the Area 11 source(s). Conversely, MW-002 and MW-

004A, which are the most impacted Area 11 wells, have the lowest 1,4-dioxane concentrations making it very unlikely that Area 11 is a source of 1,4-dioxane.

4.3 Recommendations

At this time, without the identification of a source, the plans for remedial design for the Area 11 soil component cannot be undertaken. However, due to the changes to the surficial conditions within Area 11, the overall conceptual site model has changed. This is evident from the recent significant changes in contaminant concentrations, as well as the trends in the monitoring wells that have historically shown the highest levels of site contaminants.

It is recommended that quarterly monitoring continue for at least another year. The VOCs and attenuation parameters should continue to be monitored, and the information gathered should be used to reevaluate the Area 11 conceptual site model and to assess the mechanisms that may be influencing the contaminant concentrations in groundwater within Area 11. This reevaluation will provide input to refine the remedial decisions for both leachate and soils within Area 11.

Based on the five monitoring events that included analysis of 1,4-dioxane, CDM Smith recommends that analysis of 1,4-dioxane be discontinued because results indicate Area 11 is not a source of 1,4-dioxane.

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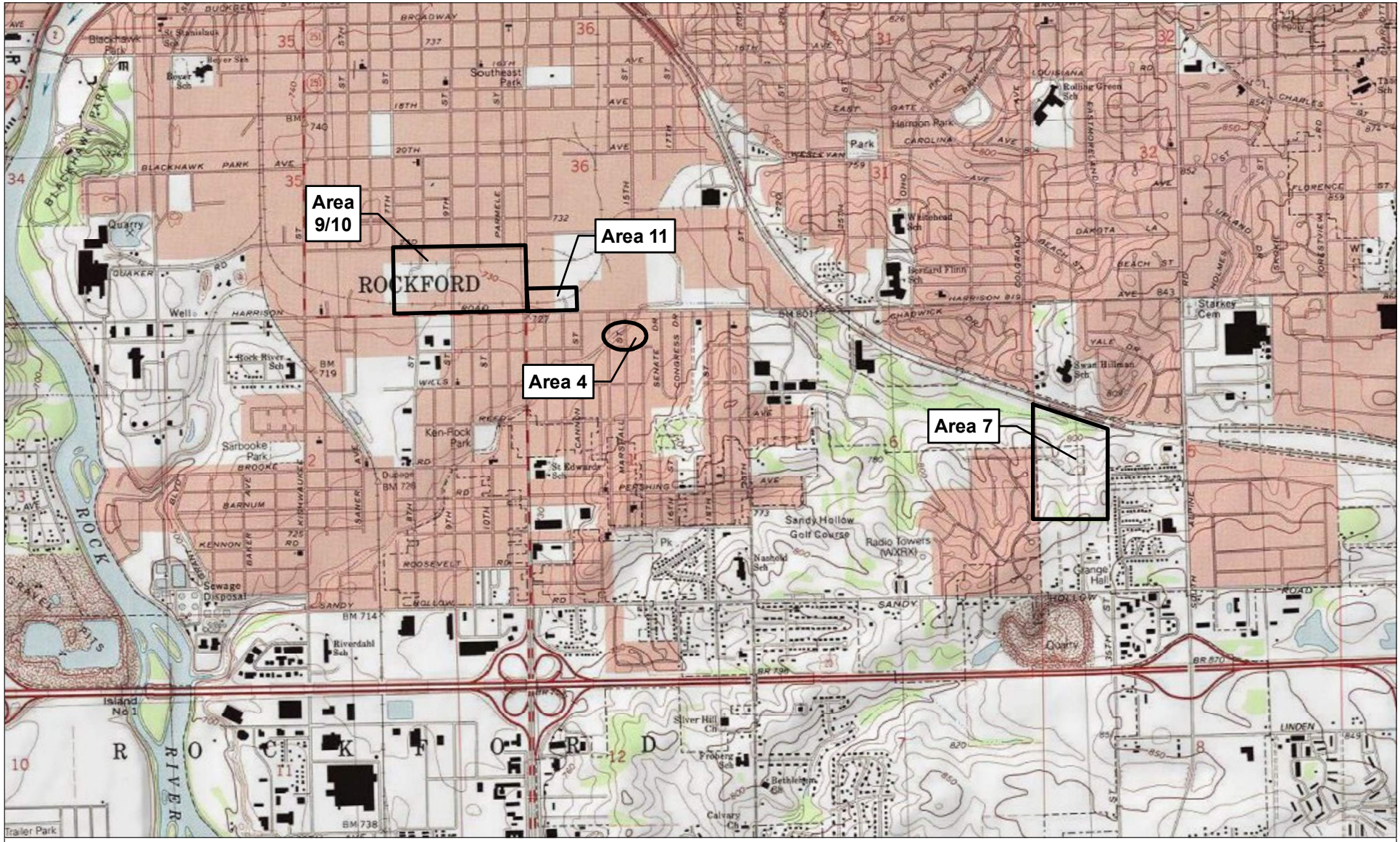
Figures



LEGEND

Source Area

Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

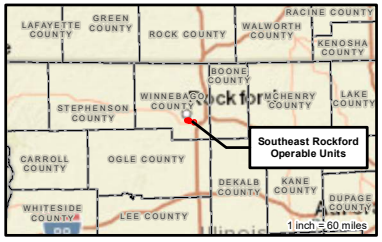


Figure 1 - Area Map

N

0 1,250 2,500 Feet

CDM Smith

Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

LEGEND

- Groundwater Sampling Location
- Water Level Measurement Location

Figure 2 - Area 11 Monitoring Well Locations

0 250 500 Feet

Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

CDM Smith

Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

LEGEND:

⊗ SB11-101 SOIL BORING LOCATION

⊠ SS11-201 SURFACE SOIL SAMPLE LOCATION

N

1" = 60'

30 0 60

NYLINT

PARKING LOT

SB11-203 SB11-110 SS11-207 SB11-109 SS11-206 SB11-108

SB11-204

ROHR MANUFACTURING

(FORMERLY ROCKWELL GRAPHICS SYSTEMS)

DUMPSTER

SB11-201
SB11-106

SB11-107

SB11-105

SB11-102

SB11-202

SB11-101

SB11-111 SB11-112

SS11-205

SS11-204

SS11-202

SS11-201

ABOVE-GROUND TANKS

SB11-103

SS11-203

SB11-104

PAOLI

ELEVENTH STREET

FORMERLY ROCKFORD VARNISH

VILLA DI ROMA RESTAURANT

UNITED STRUCTURES

(FORMERLY ROCKFORD COATINGS)

SB11-113

PARKING LOT

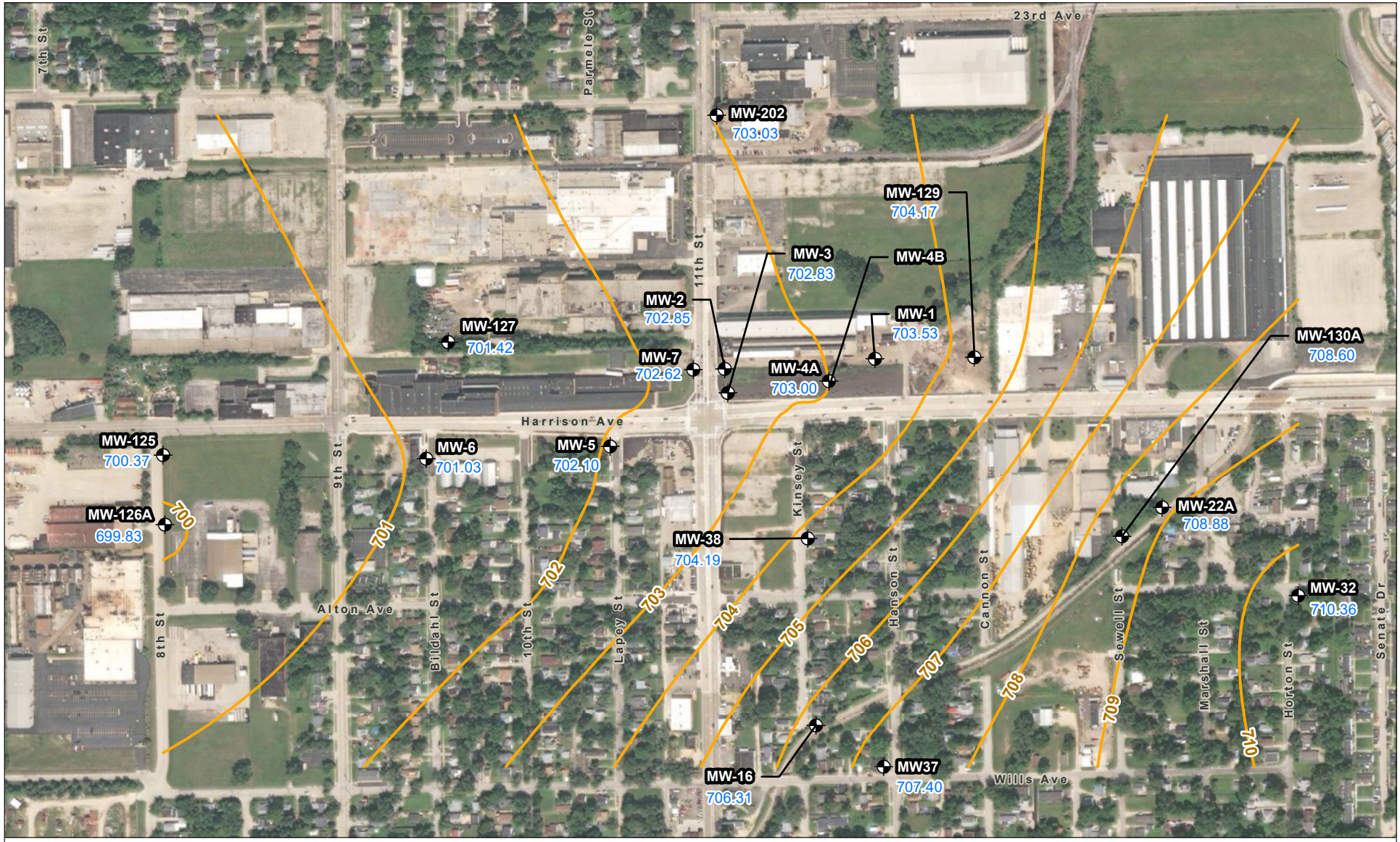
HARRISON AVENUE

CDM
environmental engineers, scientists, planners, & management consultants

SOUTHEAST ROCKFORD SOURCE CONTROL OPERABLE UNIT

AREA 11 SOIL BORING AND SURFACE SOIL SAMPLE LOCATIONS

Figure No. 3-23



LEGEND

Monitoring Well and Water Level Elevation 700.00

Groundwater Contour

Service Layer Credits:
- Water level measurements taken October 15, 2020.
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

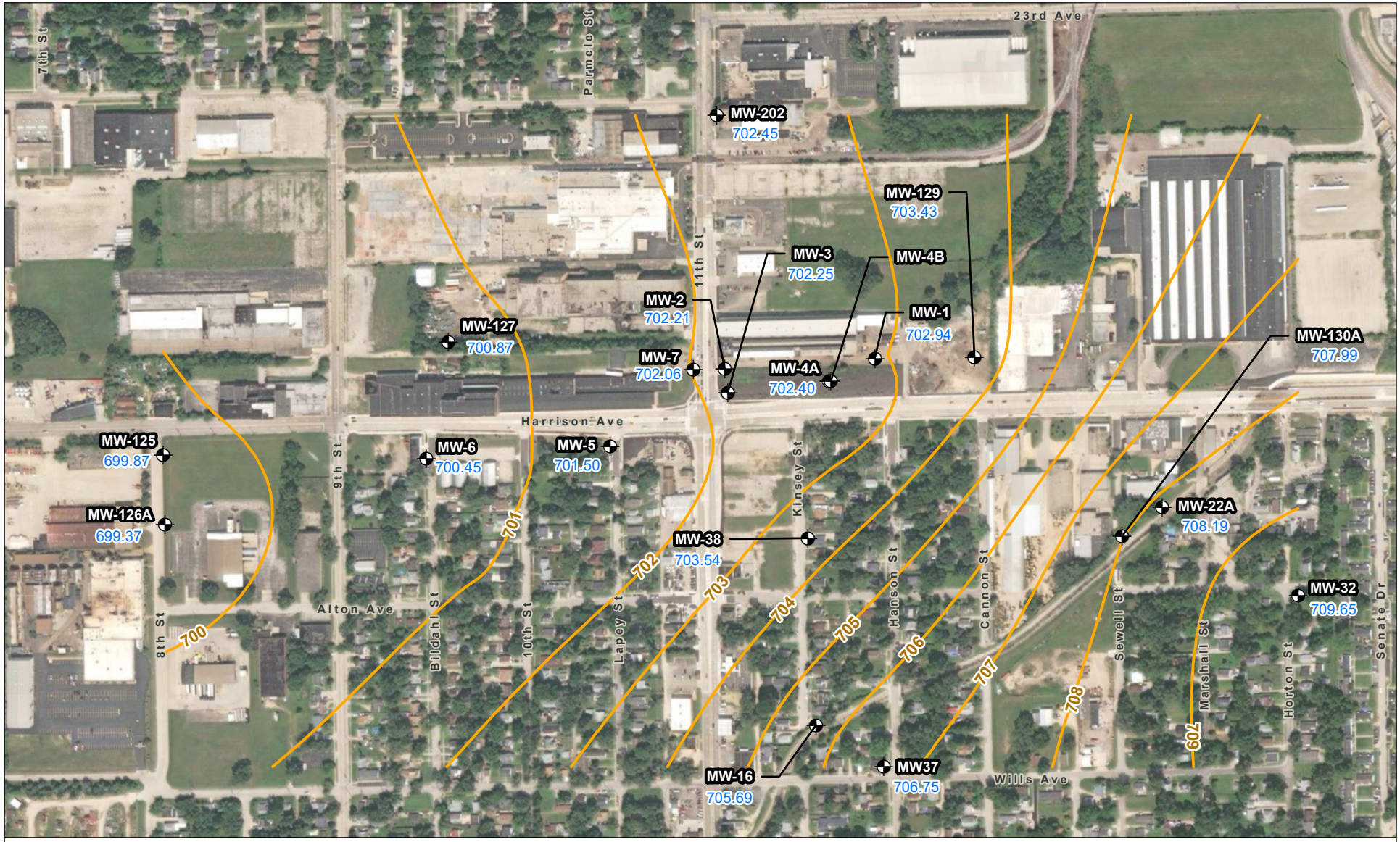
Figure 3 - Area 11 Third Quarter October 2020 Groundwater Potentiometric Surface Map

N

0 250 500 Feet

CDM Smith

Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site



LEGEND

Monitoring Well and Water Level Elevation 700.00

Groundwater Contour

Service Layer Credits:
- Water level measurements taken November 30, 2020.
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

Figure 4 - Area 11 Fourth Quarter November 2020 Groundwater Potentiometric Surface Map

N

0 250 500 Feet

CDM Smith

Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Tables

Table 1
2020 Groundwater Sampling Dates
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Sampling Event	MW-001	MW-002	MW-003	MW-004A	MW-004B	MW-005	MW-006	MW-007	MW-130A
1st Quarterly 2020	3/3/2020	3/4/2020	3/4/2020	3/4/2020	3/3/2020	3/3/2020	3/3/2020	3/4/2020	NS
2nd Quarterly 2020	6/9/2020	6/10/2020	6/10/2020	6/10/2020	6/9/2020	6/9/2020	6/9/2020	6/10/2020	NS
3rd Quarterly 2020	9/9/2020	9/10/2020	9/10/2020	9/10/2020	9/9/2020	9/9/2020	9/9/2020	9/10/2020	9/9/2020
4th Quarterly 2020	12/1/2020	12/2/2020	12/2/2020	12/2/2020	12/2/2020	12/1/2020	12/1/2020	12/2/2020	12/1/2020

NS – Not Sampled

Table 2
Source Area 11 Groundwater Monitoring Well Details
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Well Number	Depth to Screen Base from Ground Surface	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Screen Length	Aquifer Screened	Ground Surface Elevation
MW-130A	37.5	728.04	700.59	690.59	10	unconsolidated	728.09
MW-001	50	731.05	691.57	681.57	10	unconsolidated	731.44
MW-002	50	727.78	688.36	678.36	10	unconsolidated	728.18
MW-003	50	728.11	688.96	678.96	10	unconsolidated	728.55
MW-004A	40	729.66	700.12	690.12	10	unconsolidated	730.08
MW-004B	85	730.5	655.31	645.31	10	unconsolidated	730.39
MW-005	48	727.95	689.95	679.95	10	unconsolidated	728.35
MW-006	51	727.05	686.27	676.27	10	unconsolidated	727.41
MW-007	45	727.44	692.5	682.5	10	unconsolidated	727.8
MW-125*	46	727.75	691.9	681.9	10	unconsolidated	727.75
MW-126A*	55	727.84	682.9	672.9	10	unconsolidated	727.8
MW-127*	42	728.5	694.7	684.7	10	unconsolidated	726.54
MW-129*	32	731.6	705.1	700.1	5	unconsolidated	732.11
MW-202*	50	729.06	689.5	679.5	10	unconsolidated	729.19
MW-16*	53	725.33	677.8	672.8	5	unconsolidated	725.51
MW-22A*	38.5	730.35	702.2	692.2	10	unconsolidated	730.67
MW-32*	45	733.84	699.2	689.2	10	unconsolidated	734.16
MW-37*	44	725.05	686.1	681.1	5	unconsolidated	725.08
MW-38*	48	728.28	685.2	680.2	5	unconsolidated	728.79

Table 3
2020 Observed Groundwater Elevations
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Well ID	Top of Casing Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)
		March 2, 2020		June 8, 2020		October 15, 2020		November 30, 2020	
MW-001	731.05	26.92	704.13	26.36	704.70	27.52	703.53	28.11	702.94
MW-002	727.78	24.39	703.39	23.78	704.00	24.93	702.85	25.57	702.21
MW-003	728.11	24.68	703.43	24.06	704.05	25.28	702.83	25.86	702.25
MW-400A	729.66	26.09	703.57	25.46	704.20	26.66	703.00	27.26	702.40
MW-004B*	730.50	25.68	704.82	25.10	705.40	26.27	704.23	26.88	703.62
MW-005	727.95	25.33	702.62	24.64	703.31	25.85	702.10	26.45	701.50
MW-006	727.05	25.49	701.56	24.76	702.29	26.02	701.03	26.60	700.45
MW-007	727.44	24.19	703.25	23.59	703.85	24.82	702.62	25.38	702.06
MW-130A	728.04	NA	NA	NA	NA	19.44	708.60	20.05	707.99
MW-16	725.33	18.60	706.73	17.92	707.41	19.02	706.31	19.64	705.69
MW-127	728.50	26.54	701.96	25.82	702.68	27.08	701.42	27.63	700.87
MW-129	731.60	26.95	704.65	26.39	705.21	27.43	704.17	28.17	703.43
MW-202	729.06	23.39	705.67	24.81	704.25	26.03	703.03	26.61	702.45
MW-32	733.84	NA	NA	NA	NA	23.48	710.36	24.19	709.65
MW-22A	730.35	NA	NA	NA	NA	21.47	708.88	22.16	708.19
MW-37	725.05	NA	NA	22.96	702.09	17.65	707.40	18.30	706.75
MW-38	728.28	NA	NA	29.85	698.43	24.09	704.19	24.74	703.54
MW-125	727.75	NA	NA	NA	NA	27.38	700.37	27.88	699.87
MW-126A	727.84	NA	NA	NA	NA	28.01	699.83	28.47	699.37

Notes:

* well not included in potentiometric surface maps

AMSL = above mean sea level

BTOC = below top of casing

ft = feet

NA = not available

Table 4
2020 Final Stabilized Field Parameter Readings for Monitoring Well Purging
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Flowrate mL/min	pH	Specific Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	ORP (mV)	Dissolved Ferrous Iron (mg/L)	Purged Min.
Mar-20									
MW-001	NA	7.27	1.41	9.3	5.06	12.08	118	0.04	50
MW-002	NA	6.54	1.36	22	0.83	13.61	-116	1.76	35
MW-003	NA	6.62	1.35	17.7	3.39	12.12	-122	1.32	30
MW-004A	NA	6.74	1.09	5.7	3.53	12.44	-134	2.4	25
MW-004B	NA	7.42	1.18	100	1.66	12.26	37	0.1	50
MW-005	NA	7.47	1.26	20.2	4.6	10.36	70	0.002	55
MW-006	NA	7.38	1.35	0.6	0.78	12.92	-110	1.72	25
MW-007	NA	6.75	0.868	10.1	6.75	10.3	-131	1.8	35
Jun-20									
MW-001	NA	6.75	1.21	58	8.48	17.73	71	0.1	50
MW-002	250	6.65	1.33	19	2.5	17.99	-106	4.58	35
MW-003	400	6.94	1.26	11.1	3.54	15.26	-131	3.48	50
MW-004A	400	7.01	1.12	2.6	5.41	14.22	-272	2.39	50
MW-004B	500	6.78	1.18	26.4	3.11	17.31	5	0.18	35
MW-005	450	6.8	1.43	32.8	5.24	17.71	134	ND	25
MW-006	400	6.8	1.49	4.8	3.11	15.71	-115	3.84	35
MW-007	350	6.94	0.992	4	4.2	16.42	-140	2.39	25
Sep-20									
MW-001	300	6.93	1.28	81	3.84	14.31	64	0.02	45
MW-002	250	6.71	1.37	13.3	0.33	15.73	-116	2.14	40
MW-003	400	7.03	1.26	9.9	0.44	14.13	-140	2.52	45
MW-004A	325	7.13	1.29	9.8	4.5	14.44	-226	1.12	60
MW-004B	300	7.04	1.25	13.1	2.8	14.05	41	ND	55
MW-005	425	7	1.26	10	3.73	14.43	78	ND	50
MW-006	275	6.94	1.36	12.3	0.49	14.88	-133	2.19	30
MW-007	400	6.57	1.94	9.9	0.34	14.82	-126	4.98	45
MW-130A	425	6.69	1.18	9.8	2.44	13.85	24	NA	45
Dec-20									
MW-001	475	8.02	1.19	12	5.69	12.08	20	ND	90
MW-002	350	7.21	1.43	199	0.39	14.18	-109	2.7	60
MW-003	375	7.55	1.34	7	0.62	11.75	-158	3.85	45
MW-004A	330	7.43	1.34	3.6	0.54	12.34	-276	2.61	40
MW-004B	400	7.39	1.4	32	4.15	10.93	94	0.73	65
MW-005	500	7.16	1.49	39.9	4.85	12.84	160	0.03	60
MW-006	500	7.92	1.38	2.7	1.33	12.66	-150	2.96	45
MW-007	450	7.02	1.38	20.7	0.5	12.57	-128	2.86	40
MW-130A	350	7.9	1.17	27.2	2.19	10.71	-21	0.19	60

NA = Not Available

ND = Non-Detect

Table 5
VOC Compounds Detected 2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW001	A11-MW001	A11-MW001	A11-MW001
	Sample ID	A11-MW001-200303	A11-MW001-200609	A11-MW001-200909	A11-MW001-201201
	Sample Date	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	**6.74 J**	**8.9**	**7.58 J**	**9.02**
1,1-Dichloroethane	1400	**4.51**	**7.5**	**5.16**	**4.94**
1,1-Dichloroethene	7	2.00 U	**1.4**	2.00 U	2.00 U
1,4-Dioxane	7.7	**6.85**	**14.1**	0.205 U	**5**
cis-1,2-Dichloroethene	70	2.00 U	**1.4**	2.00 U	2.00 U
Tetrachloroethene	5	2.00 U	**1**	2.00 U	2.00 U
trans-1,2-Dichloroethene	100	2.00 U	**0.17 J**	2.00 U	2.00 U
Trichloroethene	5	2.00 U	**2.5**	**2.41**	**2.15**

	Station Location	A11-MW002	A11-MW002	A11-MW002	A11-MW002
	Sample ID	A11-MW002-200304	A11-MW002-200610	A11-MW002-200910	A11-MW002-201201
	Sample Date	3/4/2020	6/10/2020	9/10/2020	12/1/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	100 U	**1 J**	50.0 U	50.0 U
1,1-Dichloroethane	1400	100 U	**6.4**	50.0 U	50.0 U
1,1-Dichloroethene	7	100 U	5 U	50.0 U	50.0 U
1,2,4-Trimethylbenzene	--	**822**	NA	**622**	**588**
1,2-Dichlorobenzene	600	100 U	**5**	50.0 U	50.0 U
1,3,5-Trimethylbenzene	--	**285**	NA	**202**	**161**
1,4-Dioxane	7.7	**3.31**	**4.03**	**2.9**	**1.1**
Acetone	6300	625 UJ	**2.7 J**	312 U	312 U
cis-1,2-Dichloroethene	70	100 U	**32**	50.0 U	50.0 U
Cyclohexane	--	NA	**120**	NA	NA
Ethyl Benzene	700	**6840**	**6400**	**8260**	**10200**
Isopropyl Benzene	700	**121**	**98**	**90**	**78.1**
Methyl Acetate	--	NA	**11**	NA	NA
Methylcylohexane	--	NA	**570 J**	NA	NA
Naphthalene	140	100 U	NA	**55.2**	**58.5**
n-Propylbenzene	--	**215**	NA	**129**	**87.4**
Toluene	1000	**78600**	**68000 J**	**39300**	**33200**
Trichloroethene	5	100 U	**0.86 J**	50.0 U	50.0 U
Vinyl Chloride	2	100 U	**4.4 J**	50.0 U	50.0 U
Xylenes - Total	10000	**24900**	**24900**	**32820**	**38040**

Notes:
All results in microgram per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded result exceeds remediation goal
U = Not detected above the reported limit
J = Estimated result
N = Normal Sample
** = Field Duplicate Sample

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Table 5
VOC Compounds Detected 2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW003	A11-MW003	A11-MW003	A11-MW003
	Sample ID	A11-MW003-200304	A11-MW003-200610	A11-MW003-200910	A11-MW003-201201
	Sample Date	3/4/2020	6/10/2020	9/10/2020	12/1/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	20.0 U	**1.3 J**	10.0 U	10.0 U
1,1-Dichloroethane	1400	20.0 U	**6.9**	10.0 U	10.0 U
1,2,4-Trimethylbenzene	--	**329**	NA	**113**	**178**
1,3,5-Trimethylbenzene	--	**121**	NA	**34.8**	**55**
1,4-Dioxane	7.7	**8.57**	**9.58**	**7.23**	**4.6**
4-Methyl 2-Pentanone	--	50.0 U	**2.2 J**	25.0 U	25.0 U
Chloroethane	--	20.0 U	**1.9 J**	10.0 U	10.0 U
Cyclohexane	--	NA	**7.8**	NA	NA
Ethyl Benzene	700	**1500**	**430 J**	**201**	**256**
Isopropyl Benzene	700	**74.4**	**45**	**28.3**	**38.5**
Methylcylohexane	--	NA	**59**	NA	
Naphthalene	140	**29.1**	NA	10.0 U	**16.6**
n-Butylbenzene	--	**23.7**	NA	10.0 U	**13.1**
n-Propylbenzene	--	**76**	NA	**28.2**	**37.3**
sec-Butylbenzene	--	**27.8**	NA	**12**	**15**
Toluene	1000	**38.4**	**7.6 J**	10.0 U	10.0 U
Xylenes - Total	10000	**13000**	**5105.2**	**2430**	**6310**

	Station Location	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A
	Sample ID	A11-MW004A-200304	A11-MW004A-200610	A11-MW004A-200910	A11-MW004A-201201
	Sample Date	3/4/2020	6/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	50.0 U	**3.7 J**	50.0 U	50.0 U
1,4-Dioxane	7.7	**1.41**	**1.51**	**1.09**	**0.15 J**
Cyclohexane	--	NA	**0.83 J**	NA	NA
Ethyl Benzene	700	**260**	**330 J**	**365**	**331**
Isopropyl Benzene	700	50.0 U	**2.1 J**	50.0 U	50.0 U
Methylcylohexane	--	NA	**21**	NA	NA
Tetrachloroethene	5	50.0 U	**5.3**	50.0 U	50.0 U
Toluene	1000	**45300**	**52000**	**42600**	**34200**
Trichloroethene	5	50.0 U	**1 J**	50.0 U	50.0 U
Xylenes - Total	10000	**414**	**531 J**	**604.6**	**541.2**

Notes:
All results in microgram per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded result exceeds remediation goal
U = Not detected above the reported limit
J = Estimated result
N = Normal Sample
** = Field Duplicate Sample

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Table 5
VOC Compounds Detected 2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B
	Sample ID	A11-MW004B-200303	A11-MW004B-200609	A11-MW004B-200909	A11-MW004B-201201
	Sample Date	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	**5.29 J**	**5.5**	**4.93 J**	**5.61**
1,1-Dichloroethane	1400	**5.86**	**6.3**	**5.34**	**5.67**
1,1-Dichloroethene	7	2.00 U	**0.95**	2.00 U	2.00 U
1,4-Dioxane	7.7	**9.75**	**11.7**	**7.86**	**6.3**
cis-1,2-Dichloroethene	70	2.00 U	**1.3**	2.00 U	2.00 U
Tetrachloroethene	5	2.00 U	**0.4 J**	2.00 U	2.00 U
Toluene	1000	2.00 U	**1.6**	2.00 UJ	2.00 U
trans-1,2-Dichloroethene	100	2.00 U	**0.16 J**	2.00 U	2.00 U
Trichloroethene	5	2.00 U	**1.4**	2.00 U	2.00 U

	Station Location	A11-MW005	A11-MW005	A11-MW005	A11-MW005
	Sample ID	A11-MW005-200303	A11-MW005-200609	A11-MW005-200909	A11-MW005-201201
	Sample Date	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	**2.92 J**	**4.5**	**5.56 J**	**4.9**
1,1-Dichloroethane	1400	**3.77**	**6.4**	**9.11**	**7.01**
1,1-Dichloroethene	7	2.00 U	**1.1**	2.00 UJ	2.00 U
1,4-Dioxane	7.7	**5.35**	**8.83**	**8.18 J**	**4.5 J**
Bromodichloromethane	0.2*	2.00 U	**0.4 J**	2.00 U	2.00 U
Chloroform	70	2.00 U	**0.45 J**	2.00 U	2.00 U
cis-1,2-Dichloroethene	70	2.00 U	**1.3**	2.00 U	2.00 U
Dibromochloromethane	140*	2.00 U	**0.18 J**	2.00 U	2.00 U
Tetrachloroethene	5	2.00 U	**0.39 J**	2.00 UJ	2.00 U
trans-1,2-Dichloroethene	100	2.00 U	**0.15 J**	2.00 UJ	2.00 U
Trichloroethene	5	2.00 U	**0.89**	2.00 UJ	2.00 U

	Station Location	A11-MW006	A11-MW006	A11-MW006	A11-MW006
	Sample ID	A11-MW006-200303	A11-MW006-200609	A11-MW006-200909	A11-MW006-201201
	Sample Date	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**				
1,1-Dichloroethane	1400	2.00 U	**0.11 J**	2.00 U	2.00 U
1,4-Dioxane	7.7	**1.54**	**7.53**	**8.42**	**4.1**
Benzene	5	**2.62**	**2**	**2.28**	**2.82**
Chloroethane	--	2.00 U	**0.44 J**	2.00 U	2.00 U
Cyclohexane	--	NA	**0.35 J**	NA	NA
Isopropyl Benzene	700	2.00 U	**0.14 J**	2.00 U	2.00 U
Trichloroethene	5	2.00 U	**0.14 J**	2.00 U	2.00 U

Notes:
All results in microgram per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded result exceeds remediation goal
U = Not detected above the reported limit
J = Estimated result
N = Normal Sample
** = Field Duplicate Sample

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Table 5
VOC Compounds Detected 2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**
	Sample ID	A11-MW007-200304	A11-MW007-200304-D	A11-MW007-200610	A11-MW007-200610-D	A11-MW007-200910	A11-MW007-200910-D	A11-MW007-201201	A11-MW007-201201-D
	Sample Date	3/4/2020	3/4/2020	6/10/2020	6/10/2020	9/10/2020	9/10/2020	12/2/2020	12/2/2020
Analyte Name	**RG**								
1,2,4-Trimethylbenzene	--	**22.6**	**21**	NA	NA	**53.5**	**55.7**	**131**	**169**
1,3,5-Trimethylbenzene	--	**4.84**	**4.57**	NA	NA	**11.1**	**11.6**	**14.4 J**	**56.7 J**
1,4-Dioxane	7.7	**3.38**	**3.3**	0.205 U	0.205 U	0.212 U	0.203 U	**0.069 J**	0.19 U
Benzene	**5**	4.00 U	4.00 U	5 U	5 U	10.0 U	10.0 U	10.0 UJ	**44.3 J**
Ethyl Benzene	**700**	**959**	**863**	**820**	**810**	**2630**	**2680**	**3300**	**3660**
Isopropyl Benzene	700	**12**	**11**	**6.5**	**6.5**	**86.1**	**89.1**	**109 J**	**486 J**
Methylcylohexane	--	NA	NA	**2.7 J**	**2.6 J**	NA	NA	NA	NA
Naphthalene	140	4.00 U	4.00 U	NA	NA	**11.4**	**13.2**	**34.0 J**	**97.3 J**
n-Butylbenzene	--	4.00 U	4.00 U	NA	NA	**11.3**	**12.4**	**19.9 J**	**66.9 J**
n-Propylbenzene	--	**6.68**	**6.03**	NA	NA	**82.4**	**84.7**	**104 J**	**454 J**
sec-Butylbenzene	--	4.00 U	4.00 U	NA	NA	**10.8**	**11.3**	**17.5 J**	**68.4 J**
Tetrachloroethene	5	4.00 U	4.00 U	**1 J**	**0.89 J**	10.0 U	10.0 U	10.0 U	10.0 U
Xylenes - Total	10000	**3050**	**2800**	**2600**	**2600**	**7600**	**7920**	**7390**	**8100**

	Station Location	A11-MW130A	A11-MW130A
	Sample ID	A11-MW130A-200909	A11-MW130A-201201
	Sample Date	9/9/2020	12/1/2020
Analyte Name	**RG**		
1,1,1-Trichloroethane	200	**3.51 J**	**3.51**
1,1-Dichloroethane	1400	**4.11**	**3.77**
1,4-Dioxane	7.7	**6.1**	**4**

Notes:
All results in microgram per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded result exceeds remediation goal
U = Not detected above the reported limit
J = Estimated result
N = Normal Sample
** = Field Duplicate Sample

Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001
EPA Sample ID		E52H2	E52L5	E52R7	E52S7	E3XB9	E3XC9	E3XF8	E3XG8	E3XP2	E3XQ3	E3XX1
Sample ID		A11-MW001-110419	A11-MW001-110720	A11-MW001-120111	A11-MW001-04/02/2012	A11-MW001-120918	A11-MW001-121204	A11-MW001-130314	A11-MW001-130625	A11-MW001-140806	A11-MW001-141217	A11-MW001-150520
Sample Date		4/19/2011	7/20/2011	1/11/2012	4/2/2012	9/18/2012	12/4/2012	3/14/2013	6/25/2013	8/6/2014	12/17/2014	5/20/2015
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	**240**	**210 D**	**200**	**210 D**	**150 J**	**34**	**36 D**	**47 D**	**15**	**18**	**17 J-**
1,1,2-Trichloroethane	5	20 U	**0.41 J**	5 U	**0.44 J**	5 U	5 U	0.5 U	**0.068 J**	0.5 U	0.5 UJ	0.5 UJ
1,1-Dichloroethane	1400	**24**	**21**	**25**	**18**	**7.6**	**2.9 J**	**4.3**	**5.7**	**3**	**4.1 J**	**5 J-**
1,1-Dichloroethene	7	**11 J**	**11**	5 U	**11**	**9.4**	5 U	**3.2**	**3.8**	**1.1 J**	**2.1**	**1.9 J-**
1,4-Dioxane	7.7	400 R	100 R	100 R	100 R	100 R	100 U	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	20 U	5 U	5 U	5.0 U	5 U	**3.8 J**	0.5 U	0.5 U	0.5 U	0.5 U	**2.3 J-**
cis-1,2-Dichloroethene	70	**9.4 J**	**7.9**	**9.2**	**5.8**	**2.9 J**	**1.4 J**	**2.3**	**3**	**1.5 J**	**1.6**	**1.8 J-**
Ethyl Benzene	700	20 U	**0.25 J**	5 U	5.0 U	5 U	5 U	**0.14 J**	**0.12 J**	**0.18 J**	0.5 UJ	0.5 UJ
Isopropyl Benzene	700	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	**0.26 J**	0.5 U	0.5 UJ	0.5 UJ
Tetrachloroethene	5	**3.5 J**	**3.7 J**	**4.6 J**	**4.0 J**	**4.4 J**	**2.7 J**	**1.8**	**2.8**	**1.1**	**1.3 J**	**1.3 J-**
Toluene	1000	20 U	5 U	5 U	**0.68 J**	**0.92 J**	5 U	0.5 U	**0.52**	1 U	0.5 UJ	**0.5 UJ**
trans-1,2-Dichloroethene	100	20 U	5 U	5 U	5.0 U	5 U	5 U	**0.1 J**	**0.13 J**	0.5 U	0.5 U	**0.13 J-**
Trichloroethene	5	**8.6 J**	**6.1**	**4.7 J**	**4.2 J**	**4.1 J**	**2.3 J**	**2.2**	**4**	**1.5**	**1.7 J**	**2.1 J-**
Trichlorofluoromethane (Freon 11)	2100	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.19 J-**
Vinyl Chloride	2	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Xylenes (Total)	10000	40 U	0.5 J	5 U	5 U	5 U	5 U	0.47 J	0.65 J	0.26 J	0.5 UJ	0.5 UJ

Station Location		A11-MW001	A11-MW001	A11-MW001**	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001
EPA Sample ID		E3XZ8	E3Y44	E3Y45	E3YA2	E3YF1		A11-MW001-200303	E3YG2	A11-MW001-200909	E3YJ1
Sample ID		A11-MW001-160406	A11-MW001-170309	A11-MW001-170309-D	A11-MW001-181113	A11-MW001-190520	A11-MW001-191112	A11-MW001-200303	A11-MW001-200609	A11-MW001-200909	A11-MW001-201201
Sample Date		4/6/2016	3/9/2017	3/9/2017	11/13/2018	5/20/2019	11/12/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**										
1,1,1-Trichloroethane	200	**17**	**11**	**12**	**9.3**	**22**	**7.21**	**6.74 J**	**8.9**	**7.58 J**	**9.02**
1,1,2-Trichloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
1,1-Dichloroethane	1400	**6.5**	**6.2**	**6.9**	**9.8**	**20**	**5.25**	**4.51**	**7.5**	**5.16**	**4.94**
1,1-Dichloroethene	7	0.5 U	**1.4**	**1.5**	**1.7**	**4.6**	2.00 U	2.00 U	**1.4**	2.00 U	2.00 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	**12.2**	**6.85**	**14.1**	0.205 U	**5**
Carbon Tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
cis-1,2-Dichloroethene	70	**1.4**	**1.3**	**1.4**	**1.7**	**3.4**	2.00 U	2.00 U	**1.4**	2.00 U	2.00 U
Ethyl Benzene	700	**0.15 J**	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Isopropyl Benzene	700	0.5 U	0.5 U	0.5 U	0.5 U	0.5 R	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Tetrachloroethene	5	**1.2**	**0.81**	**0.89**	**1**	**2.7**	2.00 U	2.00 U	**1**	2.00 U	2.00 U
Toluene	1000	0.5 U	**0.09 J**	**0.1 J**	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 UJ	2.00 U
trans-1,2-Dichloroethene	100	**0.17 J**	**0.14 J**	**0.16 J**	**0.25 J**	**0.46 J**	2.00 U	2.00 U	**0.17 J**	2.00 U	2.00 U
Trichloroethene	5	**2.8**	**2.2**	**2.4**	**3.7**	**4.7**	2.00 U	2.00 U	**2.5**	**2.41**	**2.15**
Trichlorofluoromethane (Freon 11)	2100	**0.32 J**	0.5 U	0.5 U	**0.15 J**	**0.32 J**	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Vinyl Chloride	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Xylenes (Total)	10000	0.85	0.5 U	**0.11 J**	0.5 U	0.3 J+	4.00 U	4.00 U	0.5 U	4.00 U	4.00 U

Notes:
All results in micrograms per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded results exceed remediation goal
** = Duplicate sample
D = Diluted sample result
U = Not detected at value shown
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
R = Rejected

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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002
	EPA Sample ID	E52K7	E52N5	E52S4	E52S8	E3XC0	E3XD0	E3XF9	E3XH0	E3XP7	E3XQ7	E3XX5
	Sample ID	A11-MW002-110420	A11-MW002-110721	A11-MW002-120112	A11-MW002-04/03/2012	A11-MW002-120919	A11-MW002-121205	A11-MW002-130314	A11-MW002-130626	A11-MW002-140807	A11-MW002-141217	A11-MW002-150521
	Sample Date	4/20/2011	7/21/2011	1/12/2012	4/3/2012	9/19/2012	12/5/2012	3/14/2013	6/26/2013	8/7/2014	12/17/2014	5/21/2015
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	5 U	50 U	500 U	250 U	1000 U	4000 U	**110 J**	**34**	6300 U	1000 U	**73 J-**
1,1,2-Trichloroethane	5	**10**	50 U	500 U	250 U	1000 U	4000 U	5 U	5 U	6300 U	1000 U	1000 UJ
1,1-Dichloroethane	1400	**9.5**	50 U	500 U	**78 J**	1000 U	4000 U	**76**	**46**	6300 U	1000 U	1000 UJ
1,1-Dichloroethene	7	5 U	50 U	500 U	250 U	1000 U	4000 U	**43**	5 U	6300 U	1000 U	1000 UJ
1,2,4-Trimethylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	5 U	50 U	500 U	250 U	1000 U	4000 U	5 U	5 U	6300 U	1000 U	1000 UJ
1,2-Dichloropropane	5	**7.6**	50 U	500 U	250 U	1000 U	4000 U	5 UJ	5 UJ	6300 U	1000 U	1000 UJ
1,3,5-Trimethylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.7	100 R	1000 R	10000 R	5000 R	20000 R	80000 U	100 R	100 R	130000 R	20000 R	20000 R
2-Butanone	4200	10 U	100 U	1000 U	500 U	2000 U	8000 U	**58**	**27**	13000 U	2000 U	2000 UJ
2-Hexanone	--	10 U	100 U	1000 U	500 U	2000 U	8000 U	10 U	10 U	13000 U	2000 U	**4900 J-D**
4-Methyl 2-Pentanone	--	10 U	100 U	1000 U	500 U	2000 U	8000 U	**16**	**2.2 J**	13000 U	2000 U	2000 UJ
Acetone	6300	20 U	100 U	1000 U	1000 U	2000 U	8000 U	10 U	**7.1 J**	13000 U	2000 U	2000 UJ
Benzene	5	5 U	50 U	500 U	250 U	1000 U	4000 U	5 UJ	**5.3**	6300 U	1000 U	1000 UJ
Chloroethane	--	**11**	50 U	500 U	250 U	1000 U	4000 U	5 U	5 U	6300 UJ	1000 U	1000 UJ
cis-1,2-Dichloroethene	70	5 U	50 U	500 U	**100 J**	1000 U	4000 U	**160**	**69**	6300 U	1000 U	**88 J-**
Cyclohexane	--	**98**	**81**	500 U	**82 J**	1000 U	4000 U	**100 J**	**170 J**	6300 U	1000 U	1000 UJ
Dichlorodifluoromethane (Freon 12)	1400	**5.7**	50 U	500 U	250 U	1000 U	4000 U	5 U	5 U	6300 UJ	1000 U	1000 UJ
Ethyl Benzene	700	**2700 JD**	**2000 D**	**3700**	**2700**	**1500**	**3900 J**	**1400 J**	**3400 D**	**3700 J**	**3100**	**7200 J-D**
Isopropyl Benzene	700	**75**	**94**	500 U	**72 J**	1000 U	4000 U	**53 J**	**85 J**	6300 U	1000 U	**77 J-**
Methyl Acetate	--	5 U	50 U	500 U	250 U	1000 U	4000 U	5 U	**2.8 J**	6300 U	1000 U	1000 UJ
Methylcylohexane	--	**71 JD**	**420**	**280 J**	**340**	**230 J**	4000 U	**440 J**	**590 D**	6300 U	1000 U	**470 J-**
Naphthalene	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	5 U	50 U	500 U	250 U	1000 U	4000 U	5 R	5 UJ	6300 U	1000 U	1000 UJ
Tetrachloroethene	5	5 U	50 U	500 U	250 U	1000 U	4000 U	5 R	**2.4 J**	6300 U	1000 U	1000 UJ
Toluene	1000	**110**	50 U	NA	**160000 D**	**360 J**	**220000 D**	**200000 D**	**210000 D**	**150000**	**190000 D**	**110000 J-D**
Trichloroethene	5	5 U	50 U	500 U	250 U	1000 U	4000 U	5 R	**7.6 J**	6300 U	1000 U	1000 UJ
Vinyl Chloride	2	5 U	50 U	500 U	250 U	1000 U	4000 U	**12**	5 U	6300 U	1000 U	1000 UJ
Xylenes (Total)	10000	**9010 JD**	**8371 D**	**14700**	**11500**	**11000**	**16400**	**13100**	**14400**	**15100**	**12700**	**26300**

Notes:
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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002
EPA Sample ID		E3XZ9	E3Y50	E3YA3	E3YF7		A11-MW002-200304	E3YG8	A11-MW002-200910	A11-MW002-201201
Sample ID		A11-MW002-160407	A11-MW002-170310	A11-MW002-181114	A11-MW002-190521	A11-MW002-191113	A11-MW002-200304	A11-MW002-200610	A11-MW002-200910	A11-MW002-201201
Sample Date		4/7/2016	3/10/2017	11/14/2018	5/21/2019	11/13/2019	3/4/2020	6/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**									
1,1,1-Trichloroethane	200	**190 J**	1000 U	250 U	2500 U	200 U	100 U	**1 J**	50.0 U	50.0 U
1,1,2-Trichloroethane	5	500 U	1000 U	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
1,1-Dichloroethane	1400	500 U	1000 U	250 U	2500 U	200 U	100 U	**6.4**	50.0 U	50.0 U
1,1-Dichloroethene	7	500 U	1000 UJ	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
1,2,4-Trimethylbenzene	--	NA	NA	NA	NA	**403**	**822**	NA	**622**	**588**
1,2-Dichlorobenzene	600	500 U	1000 U	250 U	2500 U	200 U	100 U	**5**	50.0 U	50.0 U
1,2-Dichloropropane	5	500 U	1000 U	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
1,3,5-Trimethylbenzene	--	NA	NA	NA	NA	200 U	**285**	NA	**202**	**161**
1,4-Dioxane	7.7	NA	NA	NA	NA	**4.42**	**3.31**	**4.03**	**2.9**	**1.1**
2-Butanone	4200	1000 U	2000 U	500 U	5000 U	NA	625 U	10 U	312 U	312 U
2-Hexanone	--	1000 U	2000 U	500 U	5000 U	NA	250 U	10 U	125 U	125 U
4-Methyl 2-Pentanone	--	1000 U	2000 U	500 U	5000 U	NA	250 U	10 U		125 U
Acetone	6300	1000 U	2000 U	500 U	5000 U	NA	625 UJ	**2.7 J**	312 U	312 U
Benzene	5	500 U	1000 U	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
Chloroethane	--	500 U	1000 U	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
cis-1,2-Dichloroethene	70	**140 J**	1000 UJ	**170 J**	2500 U	200 U	100 U	**32**	50.0 U	50.0 U
Cyclohexane	--	500 U	1000 U	**110 J**	2500 U	NA	NA	**120**	NA	NA
Dichlorodifluoromethane (Freon 12)	1400	500 U	1000 U	250 U	2500 U	200 UJ	100 U	5 U	50.0 UJ	50.0 U
Ethyl Benzene	700	**5700**	**4100**	**3300**	**3700**	**4420 J**	**6840**	**6400**	**8260**	**10200**
Isopropyl Benzene	700	500 U	1000 U	**93 J**	2500 U	200 U	**121**	**98**	**90**	**78.1**
Methyl Acetate	--	500 U	1000 U	250 U	2500 U	NA	NA	**11**	NA	NA
Methylcylohexane	--	**440 J**	**530 J**	**780**	**780 J**	NA	NA	**570 J**	NA	NA
Naphthalene	140	NA	NA	NA	NA	200 U	100 U	NA	**55.2**	**58.5**
n-Propylbenzene	--	NA	NA	NA	NA	200 U	**215**	NA	**129**	**87.4**
Styrene	100	500 U	1000 U	250 U	2500 U	**371**	100 U	5 U	50.0 U	50.0 U
Tetrachloroethene	5	500 U	1000 U	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
Toluene	1000	**180000 J**	**220000 J**	**160000 J**	**88000**	**22500 J**	**78600**	**68000 J**	**39300**	**33200**
Trichloroethene	5	500 U	1000 U	250 U	2500 U	200 U	100 U	**0.86 J**	50.0 U	50.0 U
Vinyl Chloride	2	500 U	1000 U	250 U	2500 U	200 U	100 U	**4.4 J**	50.0 U	50.0 U
Xylenes (Total)	10000	**25200**	**17800**	3300	**14200**	**14930 J**	**24900**	**24900**	**32820**	**38040**

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CDM Smith

Table 6
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Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003
EPA Sample ID		E52K8	E52N6	E52S3	E52S9	E3XC1	E3XD1	E3XG0	E3XG9	E3XP8	E3XQ8	E3XX6
Sample ID		A11-MW003-110420	A11-MW003-110721	A11-MW003-1201112	A11-MW003-04/03/2012	A11-MW003-120919	A11-MW003-121205	A11-MW003-130314	A11-MW003-130626	A11-MW003-140807	A11-MW003-141217	A11-MW003-150520
Sample Date		4/20/2011	7/21/2011	1/12/2012	4/3/2012	9/19/2012	12/5/2012	3/14/2013	6/26/2013	8/7/2014	12/17/2014	5/20/2015
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	1000 U	**27**	200 U	50 U	5000 U	130 U	130 U	**7.4**	130 U	50 U	50 UJ
1,1-Dichloroethane	1400	1000 U	**20**	200 U	**11 J**	5000 U	130 U	130 U	**9.2**	130 U	**5.5 J**	**4.8 J-**
1,1-Dichloroethene	7	**130 J**	10 U	200 U	50 U	5000 U	130 U	130 U	5 U	130 U	50 U	50 UJ
1,2,4-Trimethylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.7	**9300 J**	200 R	4000 R	1000 R	100000 R	2500 U	2500 R	100 R	2500 R	1000 R	1000 R
2-Chlorotoluene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl 2-Pentanone	--	2000 U	20 U	400 U	100 U	10000 U	250 U	250 U	10 U	250 U	100 U	100 UJ
Acetone	6300	4000 U	40 U	400 U	100 U	10000 U	250 U	250 U	10 U	250 U	100 U	100 UJ
Chloroethane	--	1000 U	10 U	200 U	50 U	5000 U	130 U	130 U	**4.2 J**	130 U	50 U	50 UJ
cis-1,2-Dichloroethene	70	1000 U	**2.7 J**	200 U	50 U	5000 U	130 U	130 U	**1.3 J**	130 U	50 U	50 UJ
Cyclohexane	--	1000 U	**4.7 J**	200 U	**10 J**	5000 U	130 U	130 U	5 U	130 U	50 U	50 UJ
Ethyl Benzene	700	**1200**	**420 D**	**3000**	**1300**	**4500 J**	**300**	**92 J**	**40 J**	**730**	**78**	**320 J-**
Isopropyl Benzene	700	1000 U	**31**	**85 J**	**66**	5000 U	130 U	**53 J**	**58**	130 U	**36 J**	**51 J-**
Methylcylohexane	--	1000 U	**35**	**160 J**	**91**	5000 U	**140**	**140**	**160**	**380**	**250**	50 UJ
Methylene Chloride	5	1000 U	**0.65 J**	200 U	100 U	5000 U	5 U	130 U	5 U	130 U	50 U	100 UJ
Naphthalene	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1000	**1000**	10 U	**1000**	**550**	**130000**	**980**	130 U	**32 J**	**620**	**96**	**160 J-**
Trichloroethene	5	1000 U	10 U	200 U	50 U	5000 U	130 U	130 U	**0.53 J**	130 U	50 U	50 UJ
Xylenes (Total)	10000	**5400 J**	**3003**	**12200 D**	**11025 D**	**16800**	9830	**4200**	**1400 D**	**3200**	**1200**	**4300 DJ-**

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Table 6
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Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003
EPA Sample ID		E3Y00	E3Y51	E3YA4	E3YF4		A11-MW003-200304	E3YG5	A11-MW003-200910	A11-MW003-200910	A11-MW003-201201
Sample ID		A11-MW003-160407	A11-MW003-170310	A11-MW003-181114	A11-MW003-190521	A11-MW003-191113	A11-MW003-200304	A11-MW003-200610	A11-MW003-200910	A11-MW003-200910	A11-MW003-201201
Sample Date		4/7/2016	3/10/2017	11/14/2018	5/21/2019	11/13/2019	3/4/2020	6/10/2020	9/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**										
1,1,1-Trichloroethane	200	**2.3 J**	250 U	100 U	250 U	10.0 U	20.0 U	**1.3 J**	10.0 U	10.0 U	
1,1-Dichloroethane	1400	**5.3**	250 U	100 U	250 U	10.0 U	20.0 U	**6.9**	10.0 U	10.0 U	
1,1-Dichloroethene	7	5 UJ	250 U	100 U	250 U	10.0 U	20.0 U	5 U	10.0 U	10.0 U	
1,2,4-Trimethylbenzene	--	NA	NA	NA	NA	**137**	**329**	NA	**113**	**178**	
1,3,5-Trimethylbenzene	--	NA	NA	NA	NA	**47.1**	**121**	NA	**34.8**	**55**	
1,4-Dioxane	7.7	NA	NA	NA	NA	**12**	**8.57**	**9.58**	**7.23**	**4.6**	
2-Chlorotoluene	--	NA	NA	NA	NA	**10.3**	20.0 U	NA	10.0 U	10.0 U	
4-Methyl 2-Pentanone	--	10 U	500 U	200 U	500 U	NA	50.0 U	**2.2 J**	25.0 U	25.0 U	
Acetone	6300	10 U	500 U	200 U	**78 J**	NA	125 UJ	10 U	62.5 U	62.5 U	
Chloroethane	--	5 U	250 U	100 U	250 U	10.0 U	20.0 U	**1.9 J**	10.0 U	10.0 U	
cis-1,2-Dichloroethene	70	**1.2 J-**	250 U	100 U	250 U	10.0 U	20.0 U	5 U	10.0 U	10.0 U	
Cyclohexane	--	**1.8 J**	250 U	100 U	250 U	NA	NA	**7.8**	NA	NA	
Ethyl Benzene	700	**33**	**450**	**130**	**160 J**	**144**	**1500**	**430 J**	**201**	**256**	
Isopropyl Benzene	700	**6.4**	250 U	100 U	**57 J**	**31.7**	**74.4**	**45**	**28.3**	**38.5**	
Methylcylohexane	--	**43**	250 U	100 U	**110 J**	NA	NA	**59**	NA	NA	
Methylene Chloride	5	5 U	250 U	100 U	250 U	10.0 U	20.0 U	5 U	10.0 U	10.0 U	
Naphthalene	140	NA	NA	NA	NA	**13.8**	**29.1**	NA	10.0 U	**16.6**	
n-Butylbenzene	--	NA	NA	NA	NA	10.0 U	**23.7**	NA	10.0 U	**13.1**	
n-Propylbenzene	--	NA	NA	NA	NA	**33.6**	**76**	NA	**28.2**	**37.3**	
sec-Butylbenzene	--	NA	NA	NA	NA	10.0 U	**27.8**	NA	**12**	**15**	
Toluene	1000	**23**	**190 J**	**54 J**	**570**	**133**	**38.4**	**7.6 J**	10.0 U	10.0 U	
Trichloroethene	5	5 U	250 U	100 U	250 U	10.0 U	20.0 U	5 U	10.0 U	10.0 U	
Xylenes (Total)	10000	**392.2 J**	**4900**	**3500**	**12000**	**2910**	**13000**	**5105.2**	**2430**	**6310**	

Station Location		A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A
EPA Sample ID		E52K9	E52N1	E52S2	E52T0	E3XC2	E3XD2	E3XG1	E3XH1	E3XP9	E3XQ9	E3XX7
Sample ID		A11-MW004A-110420	A11-MW004A-110720	A11-MW004A-120112	A11-MW004A-04/03/2012	A11-MW004A-120919	A11-MW004A-121205	A11-MW004A-130314	A11-MW004A-130626	A11-MW004A-140807	A11-MW004A-141217	A11-MW004A-150520
Sample Date		4/20/2011	7/20/2011	1/12/2012	4/3/2012	9/19/2012	12/5/2012	3/14/2013	6/26/2013	8/7/2014	12/17/2014	5/20/2015
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	10000 U	1000 U	2500 U	**40 J**	5000 U	1000 U	500 U	**42**	5000 U	1000 U	1000 UJ
1,1-Dichloroethane	1400	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**2 J**	5000 U	1000 U	1000 UJ
1,1-Dichloroethene	7	**1100 J**	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**9.4**	5000 U	1000 U	1000 UJ
1,4-Dioxane	7.7	200000 R	20000 R	50000 R	5000 R	100000 R	20000 U	10000 R	100 R	100000 R	20000 R	20000 R
2-Butanone	4200	20000 U	2000 U	5000 U	500 U	10000 U	2000 U	1000 U	**1.2 J**	10000 U	2000 U	2000 UJ
Acetone	6300	40000 U	4000 U	5000 U	500 U	10000 U	2000 U	1000 U	**2 J**	10000 U	2000 U	2000 UJ
cis-1,2-Dichloroethene	70	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**17**	5000 U	1000 U	1000 UJ
Cyclohexane	--	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	5 U	5000 U	1000 U	1000 UJ
Ethyl Benzene	700	10000 U	**240 J**	**3000**	**400**	5000 U	**430 J**	**1100**	**810 D**	5000 U	**220 J**	**420 J-**
Isopropyl Benzene	700	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**7.1 J**	5000 U	1000 U	1000 UJ
Methylcylohexane	--	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**28 J**	5000 U	1000 U	1000 UJ
Styrene	100	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	5 UJ	5000 U	1000 U	1000 UJ
Tetrachloroethene	5	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**37 J**	5000 U	1000 U	1000 UJ
Toluene	1000	**160000**	**200000 D**	**180000 D**	**120000 D**	**170000**	**120000 D**	**190000 D**	**230000 D**	**110000**	**100000 D**	**130000 J-D**
Trichloroethene	5	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**5.8 J**	5000 U	1000 U	1000 UJ
Xylenes (Total)	10000	10000 U	419 J	**12400**	707 J	2100 J	2250 J	4570	3660	3900 J	430 J	98 J-

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	Station Location	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A**	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A
	EPA Sample ID	E3Y01	E3Y52	E3YA6	E3YA7	E3YF8		A11-MW004A-200304	E3YG9	A11-MW004A-200910	A11-MW004A-201201
	Sample ID	A11-MW004A-160407	A11-MW004A-170310	MW004A-181115	MW004A-181115-D	A11-MW004A-190521	A11-MW004A-191113	A11-MW004A-200304	A11-MW004A-200610	A11-MW004A-200910	A11-MW004A-201201
	Sample Date	4/7/2016	3/10/2017	11/14/2018	11/14/2018	5/21/2019	11/13/2019	3/4/2020	6/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**										
1,1,1-Trichloroethane	200	**21**	250 U	2500 U	2500 U	250 U	400 U	50.0 U	**3.7 J**	50.0 U	50.0 U
1,1-Dichloroethane	1400	**1.3 J**	250 U	2500 U	2500 U	250 U	400 U	50.0 U	5 U	50.0 U	50.0 U
1,1-Dichloroethene	7	5 U	250 UJ	2500 UJ	2500 UJ	250 U	400 U	50.0 U	5 U	50.0 U	50.0 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	**1.2**	**1.41**	**1.51**	**1.09**	NA
2-Butanone	4200	10 U	500 U	25000 U	25000 U	500 U	NA	312 U	10 U	312 U	312 U
Acetone	6300	10 U	500 U	25000 U	25000 U	**99 J**	NA	312 UJ	10 U	312 U	312 U
cis-1,2-Dichloroethene	70	**14**	250 UJ	2500 UJ	2500 UJ	250 U	400 U	50.0 U	5 U	50.0 U	50.0 U
Cyclohexane	--	5 U	250 U	2500 U	2500 U	250 U	NA	NA	**0.83 J**	NA	NA
Ethyl Benzene	700	**440 J**	**320**	2500 U	2500 U	**440**	**455**	**260**	**330 J**	**365**	**331**
Isopropyl Benzene	700	**4 J-**	250 U	2500 U	2500 U	250 U	400 U	50.0 U	**2.1 J**	50.0 U	50.0 U
Methylcylohexane	--	**22**	250 U	2500 U	2500 U	250 U	NA	NA	**21**	NA	NA
Styrene	100	5 UJ	250 U	2500 U	2500 U	250 U	400 U	50.0 U	5 U	50.0 U	50.0 U
Tetrachloroethene	5	**18 J-**	250 U	2500 U	2500 U	250 U	400 U	50.0 U	**5.3**	50.0 U	50.0 U
Toluene	1000	**150000 J**	**79000**	**48000**	**39000**	**59000**	**64300**	**45300**	**52000**	**42600**	**34200**
Trichloroethene	5	**8.8 J-**	250 U	2500 U	2500 U	250 U	400 U	50.0 U	**1 J**	50.0 U	50.0 U
Xylenes (Total)	10000	1140 D	539 J	2500 U	2500 U	706 J	800 U	**414**	**531 J**	**604.6**	**541.2**

	Station Location	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**
	EPA Sample ID	E52L0	E52N2	E52S1	E52T1	E52T6	E3XC3	E3XC4	E3XD3	E3XD4	E3XG2	E3XG3
	Sample ID	A11-MW004B-110420	A11-MW004B-110720	A11-MW004B-120112	A11-MW004B-04/03/2012	A11-MW004B-04/03/2012D	A11-MW004B-120919	A11-MW004B-120919-D	A11-MW004B-121204	A11-MW004B-121204-D	A11-MW004B-130314	A11-MW004B-130314-D
	Sample Date	4/20/2011	7/20/2011	1/12/2012	4/3/2012	4/3/2012	9/18/2012	9/18/2012	12/4/2012	12/4/2012	3/14/2013	3/14/2013
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	**190 J**	**98**	**74**	**59**	**58**	**64**	**64**	**26**	**38**	**24 D**	**35 D**
1,1,2-Trichloroethane	5	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,1-Dichloroethane	1400	**20 J**	**13**	**11**	**9**	**9.1**	**8.2**	**8.5**	**6.7**	**8.3**	**5.9**	**5.9**
1,1-Dichloroethene	7	**6.6 J**	**5.3**	5 U	**3.7 J**	**4.0 J**	5 U	5 U	5 U	5 U	**2.1**	**2.2**
1,4-Dioxane	7.7	400 R	100 R	100 R	100 R	100 R	100 R	100 R	100 U	100 U	NA	NA
Acetone	6300	80 UJ	20 U	10 U	10 U	10 U	**10 U**	10 U	10 U	10 U	5 U	5 U
Benzene	5	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 UJ	5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	**7.8 J**	**5.1**	**5.9**	**4.1 J**	**4.0 J**	**4.2 J**	**4.4 J**	**3.3 J**	**3.9 J**	**2.9**	**2.9**
Dichlorodifluoromethane (Freon 12)	1400	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Ethyl Benzene	700	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	**0.15 J**	**0.16 J**
Tetrachloroethene	5	20 UJ	**0.4 J**	5 U	**0.67 J**	**0.55 J**	**0.61 J**	**0.79 J**	5 U	5 U	**0.39 J**	**0.36 J**
Toluene	1000	20 UJ	5 U	5 U	**3.0 J**	**2.8 J**	**0.75 J**	**0.94 J**	5 U	**2.1 J**	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	**0.13 J**	**0.13 J**
trans-1,3-Dichloropropene	--	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Trichloroethene	5	**4 J**	**2.7 J**	**3.4 J**	**3.0 J**	**2.9 J**	**3.5 J**	**3.6 J**	**1.9 J**	**2.4 J**	**1.9**	**1.8**
Trichlorofluoromethane (Freon 11)	2100	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	**0.21 J**	**0.18 J**
Xylenes (Total)	10000	20 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.69 J**	**0.67 J**

Notes:
All results in micrograms per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded results exceed remediation goal
** = Duplicate sample
D = Diluted sample result
U = Not detected at value shown
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
R = Rejected

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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B
EPA Sample ID		E3XH2	E3XH3	E3XP3	E3XP4	E3XQ4RE	E3XQ5RE	E3XX2	E3XX3	E3Y02	E3Y03	E3Y48
Sample ID		A11-MW004B-130626	A11-MW004B-130626-D	A11-MW004B-140807	A11-MW004B-140807-D	A11-MW004B-141217RE	A11-MW004B-141217-DRE	A11-MW004B-150520	A11-MW004B-150520-D	A11-MW004B-160406	A11-MW004B-160406-D	A11-MW004B-170310
Sample Date		6/26/2013	6/26/2013	8/7/2014	8/7/2014	12/17/2014	12/17/2014	5/20/2015	5/20/2015	4/6/2016	4/6/2016	3/10/2017
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	**25 D**	**27 D**	**14**	**14**	**15 J**	**16**	**14 J-**	**15 J-**	**12**	**11**	**12**
1,1,2-Trichloroethane	5	**0.066 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	1400	**7.1**	**7.6**	**6.3**	**6.2**	**8.7**	**9.4**	**9 J-**	**9.2 J-**	**8.8**	**9.8**	**10**
1,1-Dichloroethene	7	**2.5**	**2.8**	**1.2 J**	**1.2 J**	**2.5**	**2**	**1.6 J-**	**1.6 J-**	0.5 U	0.5 U	**1.8**
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	6300	10 U	10 U	5 U	5 U	10 U	10 U	5 UJ	5 UJ	5 U	5 U	5 U
Benzene	5	**0.086 J**	**0.078 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	**3**	**3.2**	**1.8 J**	**1.7 J**	**2.2**	**2.2**	**2.1 J-**	**2.1 J-**	**2**	**2.2**	**2.1**
Dichlorodifluoromethane (Freon 12)	1400	**2.2**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Ethyl Benzene	700	**0.16 J**	**0.17 J**	**0.2 J**	**0.19 J**	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	**0.64**	**0.67**	**0.49 J**	**0.45 J**	**0.61**	**0.59**	**0.53 J-**	**0.53 J-**	**0.57**	**0.47 J**	**0.55**
Toluene	1000	**0.8**	**0.84**	1 U	1 U	590 U	590 U	**1.4 UJ**	**1.4 UJ**	**8**	**7.9**	**0.1 J**
trans-1,2-Dichloroethene	100	**0.21 J**	**0.21 J**	**0.16 J**	**0.13 J**	**0.24 J**	**0.25 J**	**0.26 J-**	**0.25 J-**	**0.25 J**	**0.22 J**	**0.23 J**
trans-1,3-Dichloropropene	--	**0.18 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Trichloroethene	5	**2.6**	**2.9**	**2.1**	**2.2**	**2**	**2**	**2.1 J-**	**2.2 J-**	**2.6**	**2.3**	**2**
Trichlorofluoromethane (Freon 11)	2100	**0.36 J**	**0.37 J**	**0.33 J**	**0.33 J**	**0.52 J**	**0.43 J**	**0.53 J-**	**0.51 J-**	**0.38 J**	**0.36 J**	0.5 U
Xylenes (Total)	10000	**1.01 J**	**1.1 J**	**0.31 J**	**0.3 J**	110 U	110 U	0.5 UJ	0.5 UJ	**0.38 J**	**0.14 J**	**0.11 J**

Station Location		A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B
EPA Sample ID		E3YA5	E3YF2		A11-MW004B-200303	E3YG3	A11-MW004B-200909	E3YJ0
Sample ID		A11-MW004B-181114	A11-MW004B-190520	A11-MW004B-191112	A11-MW004B-200303	A11-MW004B-200609	A11-MW004B-200909	A11-MW004B-201201
Sample Date		11/15/2018	5/20/2019	11/12/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**							
1,1,1-Trichloroethane	200	**8.9**	**18**	**6.26**	**5.29 J**	**5.5**	**4.93 J**	**5.61**
1,1,2-Trichloroethane	5	5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
1,1-Dichloroethane	1400	**11**	**20**	**6.55**	**5.86**	**6.3**	**5.34**	**5.67**
1,1-Dichloroethene	7	5 U	**3.2**	2.00 U	2.00 U	**0.95**	2.00 U	2.00 U
1,4-Dioxane	7.7	NA	NA	**13.4**	**9.75**	**11.7**	**7.86**	**6.3**
Acetone	6300	**4.5 J**	6.1 U	NA	12.5 UJ	5 U	12.5 U	12.5 U
Benzene	5	5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
cis-1,2-Dichloroethene	70	**1.8 J**	**3.8**	2.00 U	2.00 U	**1.3**	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	1400	5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Ethyl Benzene	700	5 U	0.5 UJ	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Tetrachloroethene	5	5 U	**0.93 J-**	2.00 U	2.00 U	**0.4 J**	2.00 U	2.00 U
Toluene	1000	**1.6 J**	0.5 UJ	2.00 U	2.00 U	**1.6**	2.00 UJ	2.00 U
trans-1,2-Dichloroethene	100	5 U	**0.52**	2.00 U	2.00 U	**0.16 J**	2.00 U	2.00 U
trans-1,3-Dichloropropene	--	5 U	0.5 U	2.00 U	2.00 UJ	0.5 U	2.00 U	2.00 U
Trichloroethene	5	**1.6 J**	**3.1 J-**	2.00 U	2.00 U	**1.4**	2.00 U	2.00 U
Trichlorofluoromethane (Freon 11)	2100	5 U	**0.29 J**	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Xylenes (Total)	10000	5 U	**0.77 J**	4.00 U	4.00 U	0.5 U	4.00 U	4.00 U

Notes:
All results in micrograms per liter
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Shaded results exceed remediation goal
** = Duplicate sample
D = Diluted sample result
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J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW005	A11-MW005**	A11-MW005	A11-MW005**	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005
EPA Sample ID		E52H3	E52H4	E52L6	E52L7	E52S0	E52T2	E3XC5	E3XD5	E3XG4	E3XH4	E3XP1
Sample ID		A11-MW005-110419	A11-MW005-110419-D	A11-MW005-110720	A11-MW005-110720-D	A11-MW005-120111	A11-MW005-04/02/2012	A11-MW005-120918	A11-MW005-121204	A11-MW005-130313	A11-MW005-130625	A11-MW005-140806
Sample Date		4/19/2011	4/19/2011	7/20/2011	7/20/2011	1/11/2012	4/2/2012	9/18/2012	12/4/2012	3/13/2013	6/25/2013	8/6/2014
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	**67**	**69**	**38**	**38**	**15**	**16**	**19**	**12**	**13**	**11**	**3.6**
1,1-Dichloroethane	1400	**15**	**15**	**13**	**13**	**7**	**8.1**	**7.4**	**9.5**	**7.8**	**7.3**	**2.8**
1,1-Dichloroethene	7	5 U	25 U	**3.6 J**	**3.8 J**	5 U	**2.4 J**	5 U	5 U	**1.8**	0.5 U	1 U
1,4-Dioxane	7.7	**21 J**	**17 J**	100 R	100 R	100 R	100 R	100 R	100 U	NA	NA	NA
Benzene	5	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	**0.096 J**	0.5 U
Bromodichloromethane	0.2*	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	**6**	**6**	**4.6 J**	**4.7 J**	**3.2 J**	**2.9 J**	**2.6 J**	**3.5 J**	**3.2**	**2.7**	**1.4 J**
Dibromochloromethane	140*	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane (Freon 12)	1400	**2.5 J**	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Ethyl Benzene	700	5 U	5 U	**0.18 J**	**0.23 J**	5 U	**0.80 J**	5 U	5 U	**0.14 J**	**0.18 J**	**0.25 J**
Isopropyl Benzene	700	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	5 U	5 U	**0.4 J**	**0.41 J**	5 U	**0.45 J**	5 U	5 U	**0.29 J**	**0.41 J**	**0.23 J**
Toluene	1000	5 U	5 U	5 U	5 U	5 U	**1.8 J**	**0.66 J**	5 U	0.5 U	**0.82**	1 U
trans-1,2-Dichloroethene	100	5 U	5 U	**0.5 J**	5 U	5 U	5.0 U	5 U	5 U	**0.18 J**	**0.19 J**	0.5 U
Trichloroethene	5	**1.8 J**	**1.7 J**	**1.4 J**	**1.4 J**	5 U	**0.95 J**	**1.2 J**	5 U	**0.97**	**1.3 J**	**0.5**
Trichlorofluoromethane (Freon 11)	2100	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	10000	5 U	5 U	**0.31 J**	**0.49 J**	5 U	**0.42 J**	5 U	5 U	**0.43 J**	0.92 J	**0.35 J**

Station Location		A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005
EPA Sample ID		E3XQ2	E3XX0	E3Y04	E3YA8	E3YF0		A11-MW005-200303	E3YG1	A11-MW005-200909	E3YH9
Sample ID		A11-MW005-141217	A11-MW005-150519	A11-MW005-160406	A11-MW005-181113	A11-MW005-190520	A11-MW005-191112	A11-MW005-200303	A11-MW005-200609	A11-MW005-200909	A11-MW005-201201
Sample Date		12/17/2014	5/19/2015	4/6/2016	11/13/2018	5/20/2019	11/12/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**										
1,1,1-Trichloroethane	200	**5.4**	**6.1 J-**	**4.4**	**3.5**	**6.4**	**2.46**	**2.92 J**	**4.5**	**5.56 J**	**4.9**
1,1-Dichloroethane	1400	**3.6**	**2.9 J-**	**2.8**	**3.8**	**7.2**	**3.21**	**3.77**	**6.4**	**9.11**	**7.01**
1,1-Dichloroethene	7	**1.3**	**0.88 J-**	0.5 U	0.5 UJ	**1.1**	2.00 U	2.00 U	**1.1**	2.00 UJ	2.00 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	**7.63**	**5.35**	**8.83**	**8.18 J**	**4.5 J**
Benzene	5	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Bromodichloromethane	0.2*	0.5 UJ	0.5 UJ	**0.12 J**	**0.12 J**	**0.33 J**	2.00 U	2.00 U	**0.4 J**	2.00 U	2.00 U
Chloroform	70	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	**0.45 J**	2.00 U	2.00 U
cis-1,2-Dichloroethene	70	**2.1**	**2.1 J-**	**1.9**	**0.85 J-**	**1.6**	2.00 U	2.00 U	**1.3**	2.00 U	2.00 U
Dibromochloromethane	140*	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	**0.18 J**	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	1400	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Ethyl Benzene	700	0.5 UJ	0.5 UJ	**0.21 J**	0.5 U	**0.14 J**	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Isopropyl Benzene	700	0.5 UJ	0.5 UJ	0.5 U	0.5 U	**0.14 J+**	2.00 U	2.00 U	0.5 U	2.00 UJ	2.00 U
Tetrachloroethene	5	**0.33 J**	0.5 UJ	**0.22 J**	**0.38 J**	**0.86**	2.00 U	2.00 U	**0.39 J**	2.00 UJ	2.00 U
Toluene	1000	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
trans-1,2-Dichloroethene	100	0.5 U	**0.11 J-**	0.5 U	0.5 UJ	**0.3 J**	2.00 U	2.00 U	**0.15 J**	2.00 UJ	2.00 U
Trichloroethene	5	**1.2 J**	**1.7 J-**	**1.2**	**1.4**	**2.1**	2.00 U	2.00 U	**0.89**	2.00 UJ	2.00 U
Trichlorofluoromethane (Freon 11)	2100	0.5 U	0.5 UJ	0.5 U	0.5 U	**0.31 J**	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Xylenes (Total)	10000	110 UJ	0.5 UJ	**1.27 J**	0.5 U	1.19 J	4.00 U	4.00 U	0.5 U	4.00 U	4.00 U

Notes:
All results in micrograms per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded results exceed remediation goal
** = Duplicate sample
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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW006	A11-MW006	A11-MW006	A11-MW006**	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006
	EPA Sample ID	E52L1	E52N3	E52R8	E52R9	E52T3	E3XC6	E3XD6	E3XG5	E3XH5RE	E3XP0	E3XQ1
	Sample ID	A11-MW006-110420	A11-MW006-110720	A11-MW006-120111	A11-MW006-120111-D	A11-MW006-04/02/2012	A11-MW006-120918	A11-MW006-121204	A11-MW006-130313	A11-MW006-130625RE	A11-MW006-140806	A11-MW006-141217
	Sample Date	4/20/2011	7/20/2011	1/11/2012	1/11/2012	4/2/2012	9/18/2012	12/4/2012	3/13/2013	6/25/2013	8/6/2014	12/17/2014
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
1,1-Dichloroethane	1400	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	**0.17 J**	**0.11 J**	0.5 U	**0.12 J**
1,1-Dichloroethene	7	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
1,2-Dichloropropane	5	5 U	**0.73 J**	5 U	5 U	5.0 U	5 U	5 U	**1.2**	**0.62**	0.5 U	0.5 UJ
1,4-Dioxane	7.7	100 R	100 R	100 R	100 R	100 R	100 R	100 U	NA	NA	NA	NA
Benzene	5	**3.3 J**	**2.9 J**	5 U	5 U	**3.1 J**	5 U	5 U	**4.3**	**0.4 J**	**0.58**	**1.2 J**
Bromochloromethane	--	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Bromodichloromethane	0.2*	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Chloroethane	--	**3.8 J**	5 U	5 U	5 U	**1.2 J**	**0.93 J**	5 U	**4.7**	**0.3 J**	0.5 U	0.5 UJ
Chloroform	70	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
cis-1,2-Dichloroethene	70	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U	0.5 U	**0.1 J**
Cyclohexane	--	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	**1**	**1.2 J**
Dibromochloromethane	140*	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Dichlorodifluoromethane (Freon 12)	1400	**2 J**	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	**0.088 J**	0.5 U	0.5 UJ
Ethyl Benzene	700	5 U	**0.21 J**	5 U	5 U	5.0 U	5 U	5 U	**0.21 J**	**0.21 J**	**0.36 J**	0.5 UJ
Isopropyl Benzene	700	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U	**6.3**	**3.7 J**
Methylcylohexane	--	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	**0.32 J**	0.5 UJ
Tetrachloroethene	5	**1.2 J**	5 U	5 U	5 U	**0.63 J**	**1.4 J**	5 U	**0.46 J**	**1**	**0.38 J**	**0.53 J**
Toluene	1000	5 U	5 U	5 U	5 U	5.0 U	**0.89 J**	5 U	0.5 UJ	**0.9**	1 U	0.5 UJ
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
Trichloroethene	5	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
Xylenes (Total)	10000	**1.3 J**	**0.71 J**	5 U	5 U	5.0 U	5 U	5 U	**0.8 J**	**1.23 J**	**1.66 J**	110 UJ

Notes:
All results in micrograms per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded results exceed remediation goal
** = Duplicate sample
D = Diluted sample result
U = Not detected at value shown
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
R = Rejected

Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006
EPA Sample ID		E3XW9	E3Y05	E3Y47	E3YA9	E3YE9		A11-MW006-200303	E3YG0	A11-MW006-200909	E3YH8
Sample ID		A11-MW006-150519	A11-MW006-160406	A11-MW006-170309	A11-MW006-181113	A11-MW006-190520	A11-MW006-191113	A11-MW006-200303	A11-MW006-200609	A11-MW006-200909	A11-MW006-201201
Sample Date		5/19/2015	4/6/2016	3/9/2017	11/13/2018	5/20/2019	11/13/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**										
1,1,1-Trichloroethane	200	0.5 UJ	**0.23 J**	**0.38 J**	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
1,1-Dichloroethane	1400	0.5 UJ	**0.72**	**1.8**	**0.2 J**	**0.75**	2.00 U	2.00 U	**0.11 J**	2.00 U	2.00 U
1,1-Dichloroethene	7	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
1,2-Dichloropropane	5	0.5 UJ	0.5 U	0.5 U	0.5 U	**3.1**	**2.57**	2.00 U	0.5 U	2.00 U	2.00 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	**1.02**	**1.54**	**7.53**	**8.42**	**4.1**
Benzene	5	0.5 UJ	0.5 U	0.5 U	**2.5**	**8.8**	**3.12**	**2.62**	**2**	**2.28**	**2.82**
Bromochloromethane	--	0.5 UJ	**0.21 J**	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Bromodichloromethane	0.2*	0.5 UJ	**0.39 J**	**0.75**	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Chloroethane	--	0.5 UJ	0.5 U	0.5 U	**2.3**	**1.4**	2.00 U	2.00 U	**0.44 J**	2.00 U	2.00 U
Chloroform	70	0.5 UJ	0.5 U	**0.6**	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
cis-1,2-Dichloroethene	70	0.5 UJ	**0.47 J-**	**0.31 J**	0.5 UJ	0.74 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Cyclohexane	--	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	**0.35 J**	NA	NA
Dibromochloromethane	140*	0.5 UJ	**0.45 J**	**0.51**	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	1400	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Ethyl Benzene	700	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Isopropyl Benzene	700	**1.6 J-**	0.5 U	0.5 U	**22**	**37 J+**	2.00 U	2.00 U	**0.14 J**	2.00 U	2.00 U
Methylcylohexane	--	0.5 UJ	0.5 U	0.5 U	0.5 U	**0.71**	NA	NA	0.5 U	NA	NA
Tetrachloroethene	5	**0.54 J-**	**0.41 J**	**0.82**	**0.15 J**	**0.17 J**	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Toluene	1000	**1.4 UJ**	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 UJ	2.00 U
trans-1,2-Dichloroethene	100	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Trichloroethene	5	0.5 UJ	**0.41 J**	**0.28 J**	0.5 U	0.5 U	2.00 U	2.00 U	**0.14 J**	2.00 U	2.00 U
Xylenes (Total)	10000	0.5 UJ	**0.13 J**	0.5 U	0.5 U	**0.24 J+**	4.00 U	4.00 U	0.5 U	4.00 U	4.00 U

Station Location		A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007
EPA Sample ID		E3YB0	E3YB1	E3YF5	E3YF6			A11-MW007-200304	A11-MW007-200304-D	E3YG6	E3YG7	A11-MW007-200910
Sample ID		A11-MW007-181114	A11-MW007-181114-D	A11-MW007-190521	A11-MW007-190521-D	A11-MW007-191113	A11-MW007-191113-D	A11-MW007-200304	A11-MW007-200304-D	A11-MW007-200610	A11-MW007-200610-D	A11-MW007-200910
Sample Date		11/14/2018	11/14/2018	5/21/2019	5/21/2019	11/13/2019	11/13/2019	3/4/2020	3/4/2020	6/10/2020	6/10/2020	9/10/2020
Analyte Name	**RG**											
1,1-Dichloroethane	1400	250 U	250 U	**20 J**	**21 J**	10.0 U	10.0 U	4.00 U	4.00 U	5 U	5 U	10.0 U
1,2,4-Trimethylbenzene	--	NA	NA	NA	NA	**31.7**	**32.1**	**22.6**	**21**	NA	NA	**53.5**
1,3,5-Trimethylbenzene	--	NA	NA	NA	NA	10.0 U	10.0 U	**4.84**	**4.57**	NA	NA	**11.1**
1,4-Dioxane	7.7	NA	NA	NA	NA	**0.278**	**0.293**	**3.38**	**3.3**	0.205 U	0.205 U	0.212 U
Benzene	5	250 U	250 U	130 U	130 U	10.0 U	10.0 U	4.00 U	4.00 U	5 U	5 U	10.0 U
Ethyl Benzene	700	**6500**	**6700**	**2500**	**2600**	**1420**	**1420**	**959**	**863**	**820**	**810**	**2630**
Isopropyl Benzene	700	**99 J**	**110 J**	**91 J**	**92 J**	**28.3**	**28.8**	**12**	**11**	**6.5**	**6.5**	**86.1**
Methylcylohexane	--	250 U	**89 J**	**100 J**	**99 J**	NA	NA	NA	NA	**2.7 J**	**2.6 J**	NA
Naphthalene	140	NA	NA	NA	NA	10.0 U	10.0 U	4.00 U	4.00 U	NA	NA	**11.4**
n-Butylbenzene	--	NA	NA	NA	NA	10.0 U	10.0 U	4.00 U	4.00 U	NA	NA	**11.3**
n-Propylbenzene	--	NA	NA	NA	NA	**19.5**	**19.6**	**6.68**	**6.03**	NA	NA	**82.4**
sec-Butylbenzene	--	NA	NA	NA	NA	10.0 U	10.0 U	4.00 U	4.00 U	NA	NA	**10.8**
Tetrachloroethene	5	250 U	250 U	130 U	130 U	10.0 U	10.0 U	4.00 U	4.00 U	**1 J**	**0.89 J**	10.0 U
Toluene	1000	**200 J**	**230 J**	**12 J**	**10 J**	10.0 U	10.0 U	4.00 U	4.00 U	5 UJ	5 UJ	10.0 U
Xylenes (Total)	10000	**13000**	**13000**	**4500**	**4500**	**4190**	**4210**	**3050**	**2800**	**2600**	**2600**	**7600**

Notes:
All results in micrograms per liter
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Shaded results exceed remediation goal
** = Duplicate sample
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U = Not detected at value shown
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
R = Rejected

Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW007**	A11-MW007	A11-MW007**
	EPA Sample ID	A11-MW007-200910-D	A11-MW007-201201	A11-MW007-201201-D
	Sample ID	A11-MW007-200910-D	A11-MW007-201201	A11-MW007-201201-D
	Sample Date	9/10/2020	12/2/2020	12/2/2020
Analyte Name	**RG**			
1,1-Dichloroethane	1400	10.0 U	10.0 U	10.0 U
1,2,4-Trimethylbenzene	--	**55.7**	**131**	**169**
1,3,5-Trimethylbenzene	--	**11.6**	**14.4 J**	**56.7 J**
1,4-Dioxane	7.7	0.203 U	**0.069 J**	0.19 U
Benzene	5	10.0 U	10.0 UJ	**44.3 J**
Ethyl Benzene	700	**2680**	**3300**	**3660**
Isopropyl Benzene	700	**89.1**	**109 J**	**486 J**
Methylcylohexane	--	NA	NA	NA
Naphthalene	140	**13.2**	**34.0 J**	**97.3 J**
n-Butylbenzene	--	**12.4**	**19.9 J**	**66.9 J**
n-Propylbenzene	--	**84.7**	**104 J**	**454 J**
sec-Butylbenzene	--	**11.3**	**17.5 J**	**68.4 J**
Tetrachloroethene	5	10.0 U	10.0 U	10.0 U
Toluene	1000	10.0 U	10.0 U	10.0 U
Xylenes (Total)	10000	**7920**	**7390**	**8100**

	Station Location	A11-MW130A	A11-MW130A
	EPA Sample ID	A11-MW130A-200909	E3YH7
	Sample ID	A11-MW130A-200909	A11-MW130A-201201
	Sample Date	9/9/2020	12/1/2020
Analyte Name	**RG**		
1,1,1-Trichloroethane	200	**3.51 J**	**3.51**
1,1-Dichloroethane	1400	**4.11**	**3.77**
1,4-Dioxane	7.7	**6.1**	**4**
Total Xylenes	10000	4.00 U	4.00 U

Notes:
All results in micrograms per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded results exceed remediation goal
** = Duplicate sample
D = Diluted sample result
U = Not detected at value shown
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
R = Rejected

Table 7
Comprehensive Attenuation Parameters
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW001	A11-MW001	A11-MW001**	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001
	Sample ID	A11-MW001-140806	A11-MW-001-170309	A11-MW-001-170309-D	A11-MW001-181113	A11-MW001-190520	A11-MW001-191112	A11-MW001-200303	A11-MW001-200609	A11-MW001-200909	A11-MW001-201201
	Sample Date	8/6/2014	3/9/2017	3/9/2017	11/13/2018	5/20/2019	11/12/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**										
Alkalinity, Total (As CaCO3)	--	**380**	**370**	**360**	**350**	**350**	**360**	**360**	**360**	**340**	**350**
Methane	--	0.002 U	0.005 U	0.005 U	0.005 U	0.005 U	**0.0027 J**	0.00058 U	0.00058 U	**0.00082 J**	**0.011**
Nitrate	10	**3.4 J**	**3 J-**	**3 J-**	**2.5**	**2.5**	**2.3**	**3.5**	**1.8 J**	**11.3**	**11.4**
Sulfate	400	**36.2**	**38.4**	**38.4**	**41.7**	**31**	**25**	**45**	**25**	**28.9 J-**	**30.4 J-**

	Station Location	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002
	Sample ID	A11-MW002-140807	A11-MW-002-170310	A11-MW002-181114	A11-MW002-190521	A11-MW002-191113	A11-MW002-200304	A11-MW002-200610	A11-MW002-200910	A11-MW002-201201
	Sample Date	8/7/2014	3/10/2017	11/14/2018	5/21/2019	11/13/2019	3/4/2020	6/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**									
Alkalinity, Total (As CaCO3)	--	**350**	**390**	**380**	**370**	**400**	**370**	**400**	**420**	**440**
Methane	--	**2.9 (D)**	**15**	**13**	**20**	**26**	**16**	**19**	**26 J**	**31**
Nitrate	10	0.2 U	0.2 R	0.2 U	1 U	0.2 U	0.2 U	0.2 UJ	0.12 U	0.12 U
Sulfate	400	10 U	**35.6**	10 U	20 U	4 U	4 U	4 U	0.12 U	**1.09**

	Station Location	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003**	A11-MW003	A11-MW003	A11-MW003	A11-MW003
	Sample ID	A11-MW003-140807	A11-MW-003-170310	A11-MW003-181114	A11-MW003-190521	A11-MW003-191113	A11-MW003-191113-D	A11-MW003-200304	A11-MW003-200610	A11-MW003-200910	A11-MW003-201201
	Sample Date	8/7/2014	3/10/2017	11/14/2018	5/21/2019	11/13/2019	11/13/2019	3/4/2020	6/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**										
Alkalinity, Total (As CaCO3)	--	**400**	**380**	**370**	**420**	**390**	**380**	**410**	**380**	**370**	**390**
Methane	--	**0.73 (D)**	**12**	**6.1**	**15**	**6.1**	**5.8**	**12**	**6.7**	**3.5 J**	**6.6**
Nitrate	10	0.2 U	0.2 R	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.12 U	0.12 U
Sulfate	400	**5.79**	**23.9**	**14.6**	4 U	**8.5**	**8.6**	4 U	**9**	**11.3**	**8.52**

	Station Location	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A**	A11-MW004A	A11-MW004A	A11-MW004A
	Sample ID	A11-MW004A-140807	A11-MW-004A-170310	A11-MW004A-181115	A11-MW004A-190521	A11-MW004A-191113	A11-MW004A-200304	A11-MW004A-200304-D	A11-MW004A-200610	A11-MW004A-200910	A11-MW004A-201201
	Sample Date	8/7/2014	3/10/2017	11/15/2018	5/21/2019	11/13/2019	3/4/2020	3/4/2020	6/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**										
Alkalinity, Total (As CaCO3)	--	**370**	**440**	**350**	**330**	**330**	**330**	**320**	**350**	**340**	**330**
Methane	--	**0.08 (D)**	**0.21**	0.005 U	**0.17**	**0.038**	**0.51**	**0.47**	**0.19**	**0.16 J**	**0.25**
Nitrate	10	**0.99**	**1.7 J-**	**1.5**	1 U	**0.23**	**0.28**	**0.38**	**0.65 J**	**1.93**	**1.66**
Sulfate	400	**9.48**	**93**	**26.9**	**30**	**32**	**36**	**36**	**35**	**33.4**	**42.9**

	Station Location	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B
	Sample ID	A11-MW004B-140807	A11-MW004B-140807-D	A11-MW-004B-170310	A11-MW004B-181114-D	A11-MW004B-181114	A11-MW004B-190520	A11-MW004B-191112	A11-MW004B-200303	A11-MW004B-200609	A11-MW004B-200909	A11-MW004B-201201
	Sample Date	8/7/2014	8/7/2014	3/10/2017	11/14/2018	11/15/2018	5/20/2019	11/12/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**											
Alkalinity, Total (As CaCO3)	--	**370**	**350**	**340**	**360**	**350**	**350**	**350**	**330**	**340**	**340**	**340**
Methane	--	0.002 U	0.002 U	0.005 U	**0.04**	**0.046**	0.005 U	0.00029 UJ	0.00058 U	**0.035**	**0.027 J**	**0.02**
Nitrate	10	**1.8**	**1.8**	**1.8 J-**	**2.3**	**2.3**	**1.5**	**1.3**	**1.1**	**1.1 J**	**5.2**	**5.15**
Sulfate	400	**27.7**	**27.7**	**23.9**	**76.9**	**74.1**	**23**	**18**	**19**	**19**	**18.8 J-**	**18.9 J-**

Notes:
All results in milligram per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded result exceeds remediation goal
** = Duplicate sample
U = Not detected above the reported limit
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
(D) = Diluted result

CDM Smith

Table 7
Comprehensive Attenuation Parameters
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005
	Sample ID	A11-MW005-140806	A11-MW005-181113	A11-MW005-190520	A11-MW005-191112	A11-MW005-200303	A11-MW005-200609	A11-MW005-200909	A11-MW005-201201
	Sample Date	8/6/2014	11/13/2018	5/20/2019	11/12/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**								
Alkalinity, Total (As CaCO3)	--	**380**	**360**	**370**	**370**	**320**	**370**	**370**	**380**
Methane	--	0.002 U	0.005 U	0.005 U	0.00029 UJ	0.00058 U	0.00058 U	**0.00094 J**	0.00058 U
Nitrate	10	**3.9 J**	**4.4**	**4.5**	**3.2**	**2.5**	**2.7 J**	**9.53**	**14.1**
Sulfate	400	**38.4**	**50.9**	**50**	**33**	**31**	**33**	**25.2 J-**	**33.7 J-**

	Station Location	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006
	Sample ID	A11-MW006-140806	A11-MW-006-170309	A11-MW006-181113	A11-MW006-190520	A11-MW006-191112	A11-MW006-200303	A11-MW006-200609	A11-MW006-200909	A11-MW006-201201
	Sample Date	8/6/2014	3/9/2017	11/13/2018	5/20/2019	11/12/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**									
Alkalinity, Total (As CaCO3)	--	10 U	**340**	**400**	**450**	**490**	**490**	**460**	**440**	**450**
Methane	--	**0.64 (D)**	**0.18**	**5**	**6.5**	**3.4 J**	**3.3**	**3.8**	**4.1 J**	**8.1**
Nitrate	10	0.2 UJ	**2.1 J-**	0.2 U	1 U	0.2 U	0.2 U	0.2 UJ	0.12 U	0.12 U
Sulfate	400	5 U	**38.4**	10 U	20 U	**16**	**35**	**7.1**	**5.02 J-**	**5.56 J-**

	Station Location	A11-MW007	A11-MW007	A11-MW007**	A11-MW007	A11-MW007	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**
	Sample ID	A11-MW007-181114	A11-MW007-190521	A11-MW007-190521-D	A11-MW007-191113	A11-MW007-200304	A11-MW007-200610	A11-MW007-200610-D	A11-MW007-200910	A11-MW007-200910-D	A11-MW007-201201	A11-MW007-201201-D
	Sample Date	11/14/2018	5/21/2019	5/21/2019	11/13/2019	3/4/2020	6/10/2020	6/10/2020	9/10/2020	9/10/2020	12/2/2020	12/2/2020
Analyte Name	**RG**											
Alkalinity, Total (As CaCO3)	--	**520**	**560**	**540**	**470**	**330**	**370**	**360**	**530**	**530**	**540**	**540**
Methane	--	**20**	**25**	**22**	**14**	**5.5**	**3.8**	**3.9**	**25 J**	**21 J**	**31**	**29**
Nitrate	10	0.2 U	1 U	1 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.12 U	0.12 U	0.12 U	0.12 U
Sulfate	400	10 U	20 U	20 U	**13**	**24**	**29**	**28**	**2.96**	**2.93**	**2.45**	**2.56**

	Station Location	A11-MW130A	A11-MW130A
	Sample ID	A11-MW130A-200909	A11-MW130A-201201
	Sample Date	9/9/2020	12/1/2020
Analyte Name	**RG**		
Alkalinity, Total (As CaCO3)	--	**330**	**350**
Methane	--	0.00058 UJ	**0.0014**
Nitrate	10	**5.91**	**6.26**
Sulfate	400	**17.5 J-**	**17.3 J-**

Notes:
All results in milligram per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded result exceeds remediation goal
** = Duplicate sample
U = Not detected above the reported limit
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
(D) = Diluted result

Appendix A
Groundwater Sampling Sheets

March 2020 Groundwater Sampling Sheets

SITE NAME: Southeast Rockford, Area 11

DATE: 3-3-20

TIME: 8:28

WEATHER CONDITIONS: Sunny, cold, 30s

WELL #: ~~001~~ MW001

DEPTH OF PUMP:

SAMPLERS: Christ Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					6.61	1.34	72.2	8.18	11.12	128
5					6.98	1.37	56.4	7.56	11.45	135
10					6.85	1.40	54.0	7.32	11.49	143
15					6.79	1.40	52.7	7.14	11.72	145
20										
25					7.03	1.36	37.4	6.57	10.77	147
30					7.29	1.40	43.9	5.24	11.16	120
35					7.25	1.41	22.6	5.38	11.40	120
40					7.27	1.41	16.7	5.18	11.42	116
45					7.24	1.41	11.9	5.16	11.85	117
50					7.22	1.41	9.3	5.06	12.08	118

* troubleshooting at 20min marker well stopped

Sample @ 0920

Fe → 0.04mg/L

DATE: 3-4-20 WELL #: MW002

TIME: 1255 DEPTH OF PUMP:

WEATHER CONDITIONS: Sunny, high 40s SAMPLERS: Tim, Chris

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					8.52	0.912	14.7	6.18	13.33	-26
5					7.77	1.12	32.4	1.73	13.45	-157
10					7.21	1.25	61.1	1.60	13.67	-125
15					6.56	1.37	74.3	1.11	13.89	-111
20					6.65	1.37	37.3	1.30	13.63	-120
25					6.62	1.36	21.3	1.04	13.58	-119
30					6.56	1.35	22.9	0.85	13.62	-118
35					6.54	1.36	22.0	0.83	13.61	-116

Sample @ 1335

Fe → 1.76mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 3-4-20

TIME: ~~0815~~ 8.30

WEATHER CONDITIONS: Cold, sunny, 40s

WELL #: MW003

DEPTH OF PUMP:

SAMPLERS: Chris + Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
~~0~~					~~6.11~~	~~1.06~~	~~966~~	~~9.09~~	~~10.21~~	~~-26~~
0					6.53	1.24	265	4.08	12.17	-89
5					6.58	1.31	177	4.57	11.30	-103
10					6.58	1.32	135	4.60	9.98	-107
15					6.34	1.32	100	3.88	13.74	-99
20					6.63	1.84	23	3.65	12.82	-120
25					6.62	1.84	20.1	3.49	12.43	-120
30					6.62	1.35	17.7	3.39	12.12	-122
35										

Sample @ 905

Fe → 1.32 mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 3-4-20

WELL #: MW004A

TIME: ~~1450~~ ~~1505~~ 1450

DEPTH OF PUMP:

WEATHER CONDITIONS: Sunny, low 40s

SAMPLERS: Tim + Chris

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					6.87	0.785	9.0	3.94	13.02	-108
5					6.79	0.967	6.9	4.48	13.40	-126
10					6.78	0.991	6.7	4.09	13.43	-129
15					6.77	0.998	6.4	3.58	13.43	-132
20					6.76	1.08	5.9	3.62	13.00	-134
25					6.74	1.09	5.7	3.53	12.94	-134

Sample @ 1520 Fe → 2.40 mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 11

Sample time @ 1605
Fe → 0.10 mg/L

DATE: 3-3-20

WELL #: MW009B

TIME: ~~1155~~ 15:10

DEPTH OF PUMP:

WEATHER CONDITIONS: Sunny, 40s

SAMPLERS: Chris + Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
~~0~~					~~7.57~~	~~0.609~~	~~0~~	~~5.69~~	~~12.76~~	~~28~~
0 ~~8~~					7.55	0.915	832	1.12	12.83	-1
~~10~~ 5					7.73	0.262	315	0.79	12.37	-18
~~15~~ 10					7.53	0.178	262	0.67	12.53	-23
~~20~~ 15					7.57	0.159	259	0.62	12.23	-8
~~25~~ 20										
~~30~~ 25										
~~30~~ 30					6.95	0.233	355	1.00	13.19	12
35					7.05	0.998	428	1.19	12.72	1
40					7.32	1.07	290	1.20	12.34	12
45					7.36	1.14	187	1.46	12.22	29
50					7.92	1.18	100	1.66	12.26	37

* initially water flowing through the horiba came out very turbid then suddenly cleared off appearance stabilized to 0.0 NTU

* 1st reading is a wash

* trouble shooting @ 20 + 25 minute started pump over due to tubes

DATE: 3-3-20 WELL #: MW005

TIME: 1240 DEPTH OF PUMP:

WEATHER CONDITIONS: Overcast, 40's SAMPLERS: Chris + Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					7.69	0.756	250	5.01	10.84	-72
5					7.71	0.602	196	4.44	~~9.45~~ WRONG	-66
10					7.51	0.998	65.3	4.28	10.96	-44
15					7.49	1.15	31.3	4.27	10.20	-16
20					7.48	1.21	59.6	4.12	10.96	19
25					7.56	0.846	72.3	4.74	9.95	21
30										
35					7.50	1.14	32.9	5.15	9.42	52
40					7.39	1.27	19.5	4.61	10.47	56
45					7.42	1.29	17.8	4.53	10.62	66
50					7.47	1.27	19.1	4.59	10.49	68
55					7.47	1.26	20.2	4.60	10.36	70

*@ 30min mark Cleaned out horiba due to inconsistencies of turbidity. Saw there was sand + silt inside the horiba affecting measurements.

Sample @ 1340 Fe → 0.002 mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 3-3-20

TIME: 1030

WEATHER CONDITIONS: Sunny, 30s

WELL #: MW006

DEPTH OF PUMP:

SAMPLERS: Chris + Tim

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					7.52	1.34	6.2	7.39	12.91	-108
5					7.55	1.38	5.3	1.72	12.55	-93
10					7.36	1.36	1.8	1.08	12.95	-100
15					7.44	1.36	1.0	0.93	12.93	-110
20					7.43	1.36	0.8	0.85	13.00	-111
25					7.38	1.35	0.6	0.78	12.92	-110

Sample @ 11:00

Fe → 1.72 mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 3/4/20 WELL #: MW-007

TIME: 1045 DEPTH OF PUMP:

WEATHER CONDITIONS: Sunny, 30's SAMPLERS: Andrew, Chris

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0					7.03	0.824	78.5	30.84	10.04	-110
5					6.90	0.837	55.7	7.58	9.74	-115
10					6.82	0.858	21.3	6.16	10.12	-120
15					6.81	0.844	14.5	8.02	10.05	-122
20					6.78	0.857	12.7	7.32	10.15	-125
25					6.76	0.863	11.6	6.85	10.11	-126
30					6.76	0.868	9.9	6.74	10.30	-128
35					6.75	0.868	10.1	6.75	10.30	-131
~~40~~										

Sample @ 1120

Fe ⇒ 1.80 mg/L

June 2020 Groundwater Sampling Sheets

Well Development Log

SITE NAME: Southeast Rockford, Area 11

Fe^{2+} ϕ.10

DATE: 6/9/2020

WELL #: MW-1

TIME: 730

DEPTH OF PUMP:

WEATHER CONDITIONS: 75°F, pt. cloudy, 29 mph

SAMPLERS: Grabs + Garbino

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
740			450							
745					6.68	1.20	386	5.75	17.36	56
750					6.70	1.22	250	6.25	17.88	64
755					6.73	1.20	211	5.88	16.50	73
800					6.74	1.22	320	5.98	16.79	78
805				0	6.75	1.21	248	5.52	17.50	80
810					6.74	1.21	173	5.92	17.04	69
815					6.74	1.22	184	5.85	17.22	76
820					6.76	1.21	192	10.90	16.54	67
825					6.74	1.21	115	9.38	17.51	82
830					6.76	1.21	115	8.68	17.58	79
835					6.75	1.21	58.0	8.48	17.73	71

- Difficulty maintaining constant flow rate. Will try different pump on next well.

Sample time 0840 08:40

WL - 23.78

Fe2 4.58 mg/L (diluted x 2)

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 6/10/2020

WELL #: MW 2

TIME: 11:16

DEPTH OF PUMP:

WEATHER CONDITIONS: 81°F, partly cloudy, S 11 mph

SAMPLERS: Grabs + Garbarino

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
11:30			250		6.75	1.35	12.5	3.38	20.30	-101
11:35					6.73	1.35	14.0	2.96	19.54	-102
11:40				0.03	6.71	1.34	13.4	2.81	18.52	-102
11:45					6.67	1.36	22.5	2.74	18.55	-103
11:50					6.67	1.35	22.8	2.62	18.25	-104
11:55					6.67	1.33	22.3	2.48	18.74	-105
12:00					6.65	1.34	20.2	2.54	18.09	-105
12:05					6.65	1.33	19.0	2.50	17.99	-106
12:10	SAMPLES COLLECTED									

Well Development Log

SITE NAME: Southeast Rockford, Area 11

WL - 24.06

Fe_2 - 3.48 mg/L (diluted x 2)

DATE: 6/10/2020

TIME: 0700

WELL #: MW 3

DEPTH OF PUMP:

WEATHER CONDITIONS: 70°F, cloudy, S 4mph

SAMPLERS: Grabs + Garbarino

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
7:10			400		7.14	1.27	23.5	7.75	14.76	-116
7:15					7.13	1.27	20.2	6.30	14.55	-122
7:20					7.09	1.27	20.6	5.77	14.62	-124
7:25					7.06	1.27	19.3	5.32	14.57	-126
7:30				0.06	7.06	1.27	17.0	5.41	14.82	-128
7:35					7.01	1.27	16.1	4.72	14.87	-128
7:40					6.99	1.27	15.2	4.43	14.79	-128
7:45					6.98	1.26	13.8	4.06	15.12	-130
7:50					6.96	1.26	12.7	3.88	15.07	-129
7:55					6.95	1.26	11.6	3.71	15.15	-129
8:00					6.94	1.26	11.1	3.54	15.26	-131
8:05	SAMPLES COLLECTED									

WL - 25.46

Fe_2 - 2.39 mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 6/10/2020 **WELL #:** MW 4A

TIME: 13:25 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 77°F, partly cloudy, WSW 20 mph **SAMPLERS:** Crabs + Garbarino

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
13:30			400		6.97	0.944	23.9	7.93	21.51	-229
13:35					7.02	0.969	35.2	7.15	19.57	-240
13:40				0.06	7.09	0.984	39.4	6.63	18.65	-248
13:45					7.04	1.01	38.2	6.16	17.68	-253
13:50					7.05	1.02	35.9	5.53	17.13	-262
13:55					7.05	1.02	33.8	5.13	17.19	-266
14:00					7.04	1.02	31.8	4.76	17.33	-268
14:05					7.03	1.02	31.7	4.58	1755	-269
14:10					7.02	1.11	3.1	5.47	14.16	-272
14:15					7.01	1.11	2.6	5.52	14.28	-272
14:20			↓	↓	7.01	1.12	2.6	5.41	14.22	-272
14:25	SAMPLES COLLECTED									

Well Development Log

WL 25.10

Fe_2: 0.18 mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 6/9/2020

TIME: 12:19 PM

WELL #: MW-4B

DEPTH OF PUMP:

WEATHER CONDITIONS: 83°F, mostly cloudy, ESE 15 mph

SAMPLERS: Grabs + Garbarino

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
12:25			500		6.94	1.06	35.3	4.11	19.38	-47
12:30				0.02	6.88	1.03	32.6	3.02	19.76	-35
12:35					6.85	1.01	31.8	2.08	19.08	-25
12:40					6.82	1.04	30.5	2.43	17.98	-18
12:45					6.80	1.12	29.0	2.66	17.92	-8
12:50					6.78	1.16	26.8	2.90	17.53	1
12:55					6.78	1.17	25.6	3.00	17.13	4
1:00 PM				0.05	6.78	1.18	26.4	3.11	17.31	5
1:05	SAMPLE	COLLECTION								
1:10										

24.8

Well Development Log

SITE NAME: Southeast Rockford, Area 11

WL: 24.64

Fe_2: 0.00 mg/L

DATE: 6/9/2020

TIME: 3:41 PM

WELL #: MW-5

DEPTH OF PUMP:

WEATHER CONDITIONS: 77°F, partly cloudy, ESE 19 mph

SAMPLERS: Grabs + Garbarino

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
3:45			450		6.86	1.29	58.1	10.19	19.84	150
15:50					6.89	1.41	41.7	5.71	18.54	142
15:55				0.16	6.85	1.41	37.8	5.43	17.81	139
16:00					6.83	1.41	38.6	5.31	17.84	136
16:05					6.80	1.43	32.8	5.29	17.71	134
16:10										
16:15	COLLECT SAMPLE									

WL 24.76

Well Development Log

SITE NAME: Southeast Rockford, Area 11

Fe_2 : 3.84 mg/L (diluted x 2)

DATE: 6/9/2020

WELL #: MW-6

TIME: 10:12

DEPTH OF PUMP:

WEATHER CONDITIONS: 84°F, pt. cloudy, ESE 14 mph

SAMPLERS: Grabs + Garbarino

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
10:20			400	0	6.87	1.51	14.9	3.56	16.48	-112
10:25					6.84	1.51	16.1	3.52	16.67	-114
10:30					6.83	1.50	18.1	3.45	16.24	-115
10:35					6.82	1.50	17.3	3.41	15.95	-116
10:40					6.80	1.50	14.5	3.36	15.92	-115
10:45					6.80	1.50	10.9	3.23	15.88	-115
10:50					6.80	1.50	7.0	3.23	15.61	-115
10.55					6.80	1.49	4.8	3.11	15.71	-115
11.00	COLLECT SAMPLE									

WL - 23.59

Fe2 2.39 mg/L

Well Development Log

SITE NAME: Southeast Rockford, Area 11

DATE: 6/10/2020

WELL #: MW 7

TIME: 0911

DEPTH OF PUMP:

WEATHER CONDITIONS: 74°F, partly cloudy, 5 5mph

SAMPLERS: Grabs + Garbarino

ELAPSED TIME (MIN)	VOLUME PURGED (mL)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
9:20			350		7.04	0.986	46.6	4.79	17.13	-104
9:25				0	7.03	0.988	42.5	4.57	16.53	-118
9:30					6.99	0.996	10.2	4.64	16.08	-128
9:35					6.98	0.993	6.0	4.29	17.44	-134
9:40					6.93	0.996	4.6	4.21	17.42	-138
9:45					6.94	0.992	4.0	4.20	16.42	-140
9:50	SAMPLE COLLECTION									
9:55		+ Duplicate								
10:00										

September 2020 Groundwater Sampling Sheets

LOW FLOW GROUNDWATER SAMPLING

$Fe^{2+} = 0.02$ mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 9/9/20 **WELL #:** MW-1

TIME: 15:15 **DEPTH OF PUMP:**

WEATHER CONDITIONS: cloudy, wind, 60F **SAMPLERS:** Grabs

Start 15:25

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1535			300		6.42	1.26	300	3.91	14.17	78
1540					6.55	1.27	250	4.18	14.21	84
~~1545~~ 1545					6.71	1.27	207	4.04	14.26	79
1550					6.77	1.28	185	3.86	14.33	76
1555					6.82	1.28	140	3.82	14.42	73
1600					6.87	1.28	130	4.02	14.51	71
1605					6.89	1.29	111	3.92	14.36	64
1610					6.90	1.28	105	3.80	14.46	65
1615					6.90	1.28	88	3.80	14.34	65
1620					6.93	1.28	81	3.84	14.31	64
1625	SAMPLE									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Fe^{2+}: 2.14 mg/L

WL: 24.69

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 9/10/2020 **WELL #:** MW 2

TIME: 12:07 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 57°F, overcast, windy **SAMPLERS:** Olivia + Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/min	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
12:20		24.73	250	-0.04	6.68	1.39	34.3	0.79	15.15	-99
12:25					6.69	1.39	34.6	0.57	15.31	-104
12:30					6.69	1.38	27.7	0.53	15.16	-107
12:35					6.71	1.38	22.5	0.43	15.40	-109
12:40					6.70	1.37	18.9	0.40	15.47	-111
12:45					6.71	1.37	18.1	0.37	15.54	-113
12:50					6.70	1.38	13.7	0.39	15.60	-114
12:55					6.70	1.38	13.7	0.36	15.59	-114
13:00					6.71	1.37	13.3	0.33	15.73	-116
13:05	SAMPLES COLLECTED									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

$Fe^{2+} = 2.52$ mg/L

LOW FLOW GROUNDWATER SAMPLING

WL = 24.99

SITE NAME: Southeast Rockford, Area 11

DATE: 9/10/2020 **WELL #:** MW - 3

TIME: 7:43 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 50° F, overcast, windy **SAMPLERS:** Olivia + Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/min	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
7:55		25.03	400	0.04	7.01	1.28	23.6	3.84	12.82	-99
8:00					7.02	1.29	51.6	1.17	13.28	-123
8:05					7.09	1.29	49.7	0.83	13.32	-131
8:10					7.11	1.29	42.3	0.66	13.36	-136
8:15					7.09	1.29	27.5	0.58	13.47	-137
8:20					7.09	1.28	22.3	0.52	13.57	-138
8:25					7.07	1.28	16.9	0.49	13.60	-138
8:30					7.09	1.28	14.4	0.49	13.56	-140
8:35			↓		7.08	1.27	12.7	0.47	13.68	-140
8:40					7.03	1.26	9.9	0.44	14.13	-140
8:45		SAMPLED								

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Fe^{2+} = 1.12 mg/L

WL = 26.37

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 9/10/2020 **WELL #:** MW - 4A

TIME: ~~AM~~ 14:25 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 59°F, ~~clear~~ overcast, rain **SAMPLERS:** Olivia & Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/min	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1445		26.38	325	0.01	7.09	1.23	73.1	8.17	14.22	-221
1450					7.12	1.23	52.8	6.85	14.16	-232
1455					7.14	1.23	46.8	6.68	14.11	-236
1500					7.13	1.22	43.6	6.26	14.19	-234
1505					7.14	1.22	39.1	6.08	14.20	-233
1510					7.14	1.23	30.6	5.77	14.21	-231
1515					7.14	1.24	28.6	5.95	14.23	-229
1520					7.14	1.25	22.8	5.80	14.24	-228
1525					7.13	1.26	18.6	5.51	14.25	-227
1530					7.14	1.27	15.1	5.20	14.26	-226
1535					7.13	1.28	13.0	4.91	14.25	-226
1540					7.13	1.29	11.8	4.65	14.26	-226
1545					7.13	1.29	9.8	4.50	14.44	~226

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

1550 SAMPLES COLLECTED

Fe^{2+} : less than minimum range

LOW FLOW GROUNDWATER SAMPLING

WL: 26.00

SITE NAME: Southeast Rockford, Area 11

DATE: 9/9/2020 **WELL #:** MW - 4B

TIME: 15:13 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 57°F, cloudy, windy **SAMPLERS:** Matt, Olivia

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/min	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
15:30		26.02	300	0.02	7.26	0.304	18.6	3.47	14.40	-11
15:35			↓	↓	6.86	1.04	17.2	2.40	14.17	-61
1540					7.00	1.21	16.5	2.52	14.00	-24
1545					6.92	1.15	15.1	2.37	13.91	-26
1550					6.88	1.21	14.9	2.58	13.86	-12
1555					6.97	1.24	14.0	2.56	13.93	-4
16:00					7.02	1.26	15.7	2.57	13.97	5
16:05					7.04	1.27	15.7	2.59	14.02	15
16.10					7.06	1.23	14.9	2.70	14.03	25
16:15					7.04	1.24	14.2	2.65	14.00	31
16:20					7.04	1.25	13.5	2.76	14.06	38
16:25					7.04	1.25	13.1	2.80	14.05	41

16:30 SAMPLES COLLECTED

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Fe^{2+}: less than minimum range

WL: 25.56

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 9/9/20

TIME: 10:30

WELL #: MW-5

DEPTH OF PUMP:

WEATHER CONDITIONS: 57°F, cloudy, windy

SAMPLERS: John, Olivia, Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
12:45		25.56	425	0.00	7.07	1.08	200	5.03	15.05	66
12:50					7.04	1.23	165	4.91	14.64	67
12:55					7.01	1.23	137	4.79	14.81	68
13:00					6.90	1.22	67.2	4.75	14.79	78
13:05					6.79	1.23	59.3	4.52	14.47	83
13:10					6.85	1.25	48.4	4.40	14.45	83
13:15					6.75	1.26	43.9	4.10	14.35	85
13:20					6.91	1.25	33.6	3.95	14.26	76
13:25					6.98	1.25	21.8	3.92	14.29	76
13:30					6.99	1.26	16.9	3.83	14.38	77
13:35					7.00	1.26	10.0	3.73	14.43	78
13:40			SAMPLED							

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

$Fe^{2+} = 2.19$ mg/L

LOW FLOW GROUNDWATER SAMPLING

WL: 25.75

SITE NAME: Southeast Rockford, Area 11

DATE: 9/9/20 **WELL #:** MW-6

TIME: 11:00 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 57F, cloudy **SAMPLERS:** Olivia Burke, Matt Garbarino, John Gobs

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (mL/min)	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
11:10		25.77	275	0.02	6.92	1.39	21.7	2.39	14.75	-117
11:15					6.91	1.38	17.7	0.86	14.95	-123
11:20					6.91	1.37	16.2	0.67	14.87	-125
11:25					6.95	1.36	17.1	0.56	14.94	-128
11:30					6.95	1.36	13.0	0.54	15.01	-124
11:35					6.82	1.36	13.8	0.54	14.90	-123
11:40					6.94	1.36	12.3	0.49	14.88	-133
11:45	SAMPLES COLLECTED									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Fe 2+ = over range reduced to 10 mL + filled to 25 w/ distilled (2.5 x)

WL = 24.54

LOW FLOW GROUNDWATER SAMPLING

After this reading was 1.99 → x 2.5 = 4.98

SITE NAME: Southeast Rockford, Area 11

DATE: 9/10/2020

WELL #: MW 7

TIME: 9:54

DEPTH OF PUMP:

WEATHER CONDITIONS: 53°F, overcast, windy

SAMPLERS: Olivia + Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
10:05		24.54	400	0.00	6.67	2.22	66.0	2.62	14.34	-97
10:10					6.68	2.13	72.8	0.78	14.43	-107
10:15					6.64	2.05	46.2	0.53	14.51	-113
10:20					6.64	2.01	37.1	0.48	14.73	-117
10:25					6.63	2.01	30.3	0.46	14.77	-120
10:30					6.61	1.98	23.6	0.43	14.93	-121
10:35					6.61	1.96	18.1	0.41	14.93	-124
10:40					6.61	1.94	13.6	0.38	14.85	-125
10:45					6.55	1.94	13.6	0.37	14.88	-123
10:50					6.57	1.94	9.9	0.34	14.82	-126
10:55			↓	SAMPLED						

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11 — GW: 19.18

DATE: 9/9/20 **WELL #:** MW-130A

TIME: 0830 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 55F, cloudy, windy **SAMPLERS:** Johan Grabs, Matt Garbarino, Olivia Burke

Start @ 9:00

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
9:05	—	19.56	425	—						
9:10			425	0.38	6.68	1.18	89.0	2.46	13.85	17
9:15		19.69		0.51	6.77	1.18	55.9	2.41	13.87	16
9:20					6.82	1.18	36.4	2.39	13.85	18
9:25		19.53			6.88	1.18	25.6	2.33	13.89	20
9:30					6.90	1.18	19.6	2.36	14.14	17
9:35					6.89	1.18	16.0	2.35	14.22	21
9:40					6.77	1.18	15.3	2.42	13.99	24
9:45					6.74	1.18	11.4	2.46	13.91	23
9:50					6.69	1.18	9.8	2.44	13.85	24
9:55	SAMPLES		COLLECTED							

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

December 2020 Groundwater Sampling Sheets

LOW FLOW GROUNDWATER SAMPLING

Fe^{2+}: 0.19 mg/L

SITE NAME: Southeast Rockford, Area 11

Static WL 20.16

DATE: 12/01/20 WELL #: 130A

TIME: 0755 DEPTH OF PUMP:

WEATHER CONDITIONS: clear 19°F SAMPLERS: C. Cox . A ~~Pch~~ Phelps

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/min	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
8:35	[illegible]	[illegible] 20.16	350	0.72	7.21	1.10	354	3.75	9.92	78
8.40					7.33	1.14	254	2.15	9.97	38
845					7.50	1.16	165	2.60	10.31	-1
850					7.61	1.16	131	2.58	10.45	-13
855					7.69	1.17	108	2.40	10.57	-20
900					7.73	1.17	91.1	2.16	10.57	-23
905					7.79	1.17	~~66~~ 67.9	3.61	10.67	-24
910					7.81	1.17	56.4	2.24	10.45	-23
915					7.84	1.17	48.7	2.13	10.37	-23
920					7.86	1.17	42.7	2.13	10.39	-23
925					7.88	1.17	41.1	2.19	10.59	-22
930					7.89	1.17	31.8	2.18	10.64	-22
935	SAMPLES COLLECTED				7.90	1.17	27.2	2.19	10.71	-21

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

12/01/20 1350

clear, 34°

MW-1

Static WL 28.13

Time	Vol purged	Flow rate	Draw down	pH	Spec cond	Turbidity	DO	temp	ORD
14:01	0.25 gal	475 ml/min		7.96	1.23	537	6.95	12.57	
14:06	1 gal			7.99	1.23	408	5.59	12.84	
14:11	1.5 gal			8.01	1.24	252	5.88	12.84	
14:16	2 gal			8.01	1.23	208	5.84	12.79	
14:21	2.5 gal			8.01	1.23	164	5.79	12.81	
14:26	3.25 gal			8.02	1.23	133	5.72	12.75	
14:31	3.75 gal			8.02	1.23	126	5.61	12.65	
14:36	~~4 gal~~ 4.5 gal			8.01	1.23	98.8	6.27	12.75	
14:41	5 gal			8.02	1.22	68.2	5.72	12.64	
14:46	5.25 gal			8.01	1.22	58.0	5.73	12.85	
14:51	5.75 gal			8.01	1.22	49.5	5.81	12.75	
14:56	7 gal			8.01	1.22	36.0	5.78	12.64	
15:01	7.15 gal			8.01	1.22	31.5	5.77	12.65	
15:06	8 gal			8.02	1.20	25.6	6.48	12.40	

pg 1 of 2

COMPUTED BY ____ DATE ____ PAGE NO. ____

JOB NO. ____ DATE CHECKED ____ CHECKED BY ____

CLIENT ____ PROJECT ____ DETAIL ____

CDM Smith

CDMSMITH 8

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 12/01/20 **WELL #:** MW 1

TIME: **DEPTH OF PUMP:**

WEATHER CONDITIONS: **SAMPLERS:**

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
15:11	8.25gal				8.01	1.20	20.4	5.75	12.55	~~12.53~~ 17
15:16	8.75gal				8.01	1.20	17.4	5.74	12.44	18
15:21	9gal				8.01	1.19	15.8	5.74	12.11	19
15:26	9.25gal				8.02	1.19	12.0	5.69	12.08	20
15:31	SAMPLES COLLECTED									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Ferrous Iron 0.0

LOW FLOW GROUNDWATER SAMPLING

Fe^{2+}: 2.70 mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 12/2/2020 **WELL #:** MW002

TIME: 1158 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Partly cloudy, 43°F **SAMPLERS:** Matt + Alan

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
12:10		25.58	300	0.1	7.14	1.52	125	1.06	13.22	-84
12:15					7.26	1.50	92.0	0.91	13.61	-88
12:20					7.17	1.48	55.4	0.56	13.67	-100
12:25					7.04	1.45	47.7	0.50	13.77	-93
12:30					6.94	1.45	49.8	0.47	13.85	-94
12:35					6.99	1.45	31.8	0.45	13.92	-92
12:40					7.06	1.45	723.5	0.44	13.91	-101
12:45					7.07	1.43	32.7	0.43	14.02	-108
12:50					7.18	1.45	45.1	0.42	14.15	-112
12:55					7.13	1.44	66.2	0.40	14.15	-106
13:00					7.19	1.43	120	0.39	14.14	-111
13:05			350		7.21	1.43	199	0.39	14.18	-109

13:10 SAMPLES COLLECTED

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Dilution factor

$Fe^{2+} = 1.54 \times 2.5$

$= 3.85$ mg/L

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 12/2/2020 **WELL #:** MW 3

TIME: 707 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Partly cloudy 21°F **SAMPLERS:** Matt + Alan

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
800		25.19	375	-0.67	7.25	1.35	226	2.19	10.97	-132
~~0805~~ 825					7.42	1.35	104	1.16	10.70	-143
810					7.38	1.35	55.1	0.91	11.23	-142
815					7.31	1.35	32.4	0.82	11.31	-141
820					7.41	1.35	20.8	0.37	10.64	-144
825					7.49	1.35	14.4	0.68	11.3	-154
830					7.56	1.35	11.5	0.68	11.17	-155
835					7.49	1.34	9.4	0.67	11.83	-157
840					7.55	1.34	7.0	0.62	11.75	-153
845	SAMPLES COLLECTED									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

LOW FLOW GROUNDWATER SAMPLING

Fe^{+2} 2.61 mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 12/2/2020 **WELL #:** MW 4A

TIME: 14:04 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Partly Cloudy 44°F **SAMPLERS:** Matt + Alan

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1420		27.27	330	0.39	7.59	1.31	155	5.52	13.98	-292
1425					7.75	1.30	65.3	4.11	13.65	-298
1430					7.53	1.30	35.2	3.29	13.41	-284
1435					7.44	1.31	17.7	2.85	13.17	-280
1440					7.73	1.31	9.2	0.54	12.35	-290
1445					7.58	1.32	7.5	0.58	12.73	-276
1450					7.59	1.33	5.8	0.56	12.56	-279
1455					7.43	1.34	3.6	0.54	12.34	-276
1500	SAMPLES COLLECTED									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Fe^{2+}: 0.73 mg/L

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 12/1/2020 **WELL #:** MW 4B

TIME: 15:12 **DEPTH OF PUMP:**

WEATHER CONDITIONS: clear 34°F **SAMPLERS:** Matt Garbe

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
15:40		~~26.95~~	400	0.05	7.19	1.29	964	16.61	9.46	41
1545					7.29	1.27	506	8.46	9.37	50
1550					7.31	1.32	159	7.40	9.93	56
1555					7.35	1.38	114	6.69	9.95	59
1600					7.43	1.40	99.8	6.28	9.39	58
1605					7.41	1.40	97.2	5.60	8.75	67
1610					7.39	1.40	108	5.13	9.90	65
1620					7.38	1.41	74.0	4.97	10.17	82
1625					7.38	1.41	52.0	4.74	10.32	98
1630					7.37	1.39	40.8	4.51	10.72	95
1635					7.36	1.39	31.1	4.36	10.74	99
1640					7.39	1.40	32.0	4.15	16.93	94

16 45 SAMPLES COLLECTED

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

LOW FLOW GROUNDWATER SAMPLING

Fe^{2+}: 0.03 mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 12/1/2020 WELL #: MW 005

TIME: 12:41 DEPTH OF PUMP:

WEATHER CONDITIONS: Clear 32°F SAMPLERS: Matt Garbarino

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1250		26.47	500	0.2	6.40	1.41	237	9.00	10.12	125
1255					6.92	1.49	313	5.62	11.51	137
1300					7.01	1.48	267	5.50	11.49	141
1305					7.10	1.48	199	5.27	10.18	146
1310					7.13	1.48	126	5.17	11.48	150
1315					7.15	1.47	106	5.08	11.83	152
1320					7.15	1.47	85.7	5.08	11.62	155
1325					7.15	1.48	68.5	5.02	11.45	157
1330					7.16	1.49	64.8	5.12	10.93	156
1335					7.14	1.50	45.6	5.03	12.15	159
1340					7.15	1.50	41.1	4.96	12.01	159
1345					7.16	1.49	39.9	4.85	12.54	160

1350 SAMPLES COLLECTED

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

LOW FLOW GROUNDWATER SAMPLING

Static water level 26.57

SITE NAME: Southeast Rockford, Area 11

DATE: 12/01 **WELL #:** MW -6

TIME: 1105 **DEPTH OF PUMP:**

WEATHER CONDITIONS: clear 30s **SAMPLERS:**

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1126	1gal		500ml/min		7.87	1.43	76.5	3.04	12.35	-134
1131	2gal		↓		7.88	1.43	23.1	1.55	12.62	-139
1136	2.5gal				7.90	1.41	13.6	1.48	12.61	-142
1141	3.5gal				7.91	1.40	11.5	1.45	12.64	-145
1146	4.5gal				7.91	1.39	8.4	1.43	1236	-146
1151	4.75gal				7.91	1.39	6.4	1.39	12.73	-147
1156	5gal				8.03	1.39	5.0	1.42	12.62	-149
1201	5.25gal				7.94	1.38	3.8	1.35	12.35	-150
1206	5.5gal				7.92	1.38	2.7	1.33	12.66	-150
1211			SAMPLE							

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Ferrous 2.96

LOW FLOW GROUNDWATER SAMPLING

WL 25.41

SITE NAME: Southeast Rockford, Area 11

Fe^{2+} = 2.86 mg/L

DATE: 12/2/2020

WELL #: MW 007

TIME: ~~10~~ 9 57

DEPTH OF PUMP:

WEATHER CONDITIONS: Clear 33°F

SAMPLERS: Alan + Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1010		25.41	450	0.03	6.95	1.43	194	6.99	10.80	-81
1015					6.86	1.39	206	3.17	11.65	-92
1020					6.87	1.39	125	2.54	11.84	-106
1025					6.93	1.36	74.5	1.46	11.97	-116
1030					6.97	1.37	44.4	1.15	12.31	-118
1035					6.96	1.37	31.8	0.57	12.16	-126
1040					6.95	1.38	31.3	0.54	12.35	-127
1045					6.86	1.39	28.4	0.53	12.28	-124
1050	SAMPLES COLLECTED				7.02	1.38	20.7	0.50	12.57	-128

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Appendix B
Data Validation Reports and Data Packages

March 2020 Data Validation Reports and Data Packages

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: E200303
Laboratory: ESAT / Tech Law

Matrix: Groundwater
Collection date: 03/03/2020 & 03/04/2020
Analysis/Methods:

1,4-Dioxane - SW-846 8000D SIM

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
E200303-01	A11-TB002-200304	E200303-07	A11-MW004B-200303
E200303-02	A11-FB001-200303	E200303-08	A11-MW005-200303
E200303-03	A11-MW001-200303	E200303-09	A11-MW006-200303
E200303-04	A11-MW002-200304	E200303-10	A11-MW007-200304
E200303-05	A11-MW003-200304	E200303-11	A11-MW007-200304-D
E200303-06	A11-MW004A-200304	E200303-12	A11-TB001-200303

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260 / 1,4-Dioxane 8000D

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**No**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-200304	**A11-MW007-200304-D**	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
E20C007-MS1 / MSD1 (200303-04)	Acceptable			
E20C007-MS2 / MSD2 (200303-08)	Acceptable			

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**No**
Laboratory Control Sample criteria met?			**No**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**No**
Was the ICAL criteria met?			**No**
Was the CCV criteria met?			**No**
Was the Tuning criteria met?			**Yes**
Were the Surrogate % recoveries within laboratory determined control limits?			**Yes**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20C007-BLK1	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-200303	Nondetect			
A11-TB001-200303	Nondetect			
A11-TB002-200304	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
	Acceptable			

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20C007-MS1 / MSD1 (200303-04)	Acceptable			
E20C007-MS2 / MSD2 (200303-08)	Acceptable			

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20C007-BS1	Acceptable			

ICAL	RRF	%RSD	Limits	Qualifiers	Associated Samples
November 20, 2019	Acceptable	Acceptable			

ICV / CCV	RRF	%D	Limits	Qualifiers	Associated Samples
3/10/2020 10:44	Acceptable	Acceptable			
3/10/2020 3:41	Acceptable	Acceptable			
3/11/2020 10:14	Acceptable	Acceptable			
3/11/2020 1:23	Acceptable	Acceptable			

Tune
Acceptable

MRL Check	%R	Limits	Qualifiers	Associated Samples
E20C007-MRL1	Acceptable			

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
		Acceptable		

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was -0.8 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:

Data is usable as reported.

Data Validator: Kristine Molloy Date: 4/3/2020

Data Reviewer: Cherie Zakowski Date: 4/5/2020

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

1,4-Dioxane by GC-MS
TechLaw - ESAT Contract

A11-TB002-200304 (E200303-01) **Matrix: Water** **Sampled: Mar-04-20 08:00** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.221	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.780	*70.5%*	*70-130*	"	"	"

A11-FB001-200303 (E200303-02) **Matrix: Water** **Sampled: Mar-03-20 17:00** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.759	*75.3%*	*70-130*	"	"	"

A11-MW001-200303 (E200303-03) **Matrix: Water** **Sampled: Mar-03-20 09:20** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**6.85**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.802	*79.6%*	*70-130*	"	"	"

A11-MW002-200304 (E200303-04) **Matrix: Water** **Sampled: Mar-04-20 13:35** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**3.31**			0.203	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.891	*87.7%*	*70-130*	"	"	"

A11-MW003-200304 (E200303-05) **Matrix: Water** **Sampled: Mar-04-20 09:05** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**8.57**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.822	*81.6%*	*70-130*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

1,4-Dioxane by GC-MS

TechLaw - ESAT Contract

A11-MW004A-200304 (E200303-06) **Matrix: Water** **Sampled: Mar-04-20 15:20** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**1.41**			0.203	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.789	*77.6%*	*70-130*	"	"	"

A11-MW004B-200303 (E200303-07) **Matrix: Water** **Sampled: Mar-03-20 16:05** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**9.75**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.784	*77.8%*	*70-130*	"	"	"

A11-MW005-200303 (E200303-08) **Matrix: Water** **Sampled: Mar-03-20 13:40** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**5.35**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.856	*84.9%*	*70-130*	"	"	"

A11-MW006-200303 (E200303-09) **Matrix: Water** **Sampled: Mar-03-20 11:00** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**1.54**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.819	*81.2%*	*70-130*	"	"	"

A11-MW007-200304 (E200303-10) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**3.38**			0.203	ug/L	1	E20C007	Mar-09-20	Mar-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.861	*84.7%*	*70-130*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

1,4-Dioxane by GC-MS

TechLaw - ESAT Contract

A11-MW007-200304-D (E200303-11) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**3.30**			0.205	ug/L	1	E20C007	Mar-09-20	Mar-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.997	*97.3%*	*70-130*	"	"	"

A11-TB001-200303 (E200303-12) **Matrix: Water** **Sampled: Mar-03-20 08:00** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.207	ug/L	1	E20C007	Mar-09-20	Mar-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.848	*82.0%*	*70-130*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

1,4-Dioxane by GC-MS - Quality Control
TechLaw - ESAT Contract

Batch E20C007 - EPA 522

Blank (E20C007-BLK1) — **Prepared: Mar-09-20 Analyzed: Mar-10-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**U**			0.200	ug/L						
Surrogate: 1,4-Dioxane-d8	*0.766*				"	*1.00*		*76.6%*	*70-130*		

LCS (E20C007-BS1) — **Prepared: Mar-09-20 Analyzed: Mar-10-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.764**			0.200	ug/L	1.00		76.4%	70-130		
Surrogate: 1,4-Dioxane-d8	*0.728*				"	*1.00*		*72.8%*	*70-130*		

MRL Check (E20C007-MRL1) — **Prepared: Mar-09-20 Analyzed: Mar-10-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**U**	Q		0.200	ug/L	0.200		%	50-150		
Surrogate: 1,4-Dioxane-d8	*0.738*				"	*1.00*		*73.8%*	*70-130*		

Matrix Spike (E20C007-MS1) — **Source: E200303-04** — **Prepared: Mar-09-20 Analyzed: Mar-10-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**4.19**			0.207	ug/L	1.03	3.31	85.7%	70-130		
Surrogate: 1,4-Dioxane-d8	*0.911*				"	*1.03*		*88.2%*	*70-130*		

Matrix Spike (E20C007-MS2) — **Source: E200303-08** — **Prepared: Mar-09-20 Analyzed: Mar-11-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**6.32**			0.203	ug/L	1.02	5.35	95.4%	70-130		
Surrogate: 1,4-Dioxane-d8	*0.822*				"	*1.02*		*80.9%*	*70-130*		

Matrix Spike Dup (E20C007-MSD1) — **Source: E200303-04** — **Prepared: Mar-09-20 Analyzed: Mar-10-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**4.16**			0.205	ug/L	1.02	3.31	83.4%	70-130	2.66	30
Surrogate: 1,4-Dioxane-d8	*0.880*				"	*1.02*		*85.9%*	*70-130*		

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

1,4-Dioxane by GC-MS - Quality Control
TechLaw - ESAT Contract

Batch E20C007 - EPA 522

Matrix Spike Dup (E20C007-MSD2) **Source: E200303-08** **Prepared: Mar-09-20 Analyzed: Mar-11-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**6.34**			0.203	ug/L	1.02	5.35	97.0%	70-130	1.71	30
Surrogate: 1,4-Dioxane-d8	*0.859*				"	*1.02*		*84.6%*	*70-130*		

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

Notes and Definitions

U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: E200306
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 03/03/2020 & 03/04/2020
Analysis/Methods:
Volatile Organic Compounds (VOCs) 8260

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2003006-01	A11-TB002-200304	2003006-07	A11-MW004B-200303
2003006-02	A11-FB001-200303	2003006-08	A11-MW005-200303
2003006-03	A11-MW001-200303	2003006-09	A11-MW006-200303
2003006-04	A11-MW002-200304	2003006-10	A11-MW007-200304
2003006-05	A11-MW003-200304	2003006-11	A11-MW007-200304-D
2003006-06	A11-MW004A-200304	2003006-12	A11-TB001-200303

Data validation was performed in accordance with the specific analytical method and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260 / 1,4-Dioxane 8000D

Precision:

	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?		**No**	
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**		
Laboratory Control Spike Duplicates RPD within limits?		**No**	
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates		Sample	Duplicate	%RPD	Qualifiers	Associated Samples
		A11-MW007-200304	**A11-MW007-200304-D**			
	1,3,5-Trimethylbenzene	4.84	4.57	NC	None	
	Isopropylbenzene	12	11	NC	None	Sample results < 5xs RL; ABS Diff. < RL
	n-Propylbenzene	6.68	6.03	NC	None	

MS/MSD		%RPD	Limit	Qualifiers	Associated Samples
B20C019-MS1 / MSD1 (2003006-04RE1)		Acceptable			
B20D016-MS1 / MSD1 (2003006-08RE2)		Acceptable			

LCS/LCSD		%RPD	Limits	Qualifiers	Associated Samples
B20C012-BS1 / BSD1		Acceptable			
B20C019-BS1 / BSD1	1,1-Dichloroethene	21.8	20%	**J****	**2003006-03RE1 through 2003006-06RE1, 2003006-10RE1, 2003006-11RE1**
	2,2-Dichloropropane	55.3	20%	**J****	
	Hexachlorobutadiene	21.3	20%	**J****	
	n-Butylbenzene	23.2	20%	**J****	
B20C016-BS1		Acceptable			

**Sample results nondetect - no qualifiers required.

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:

	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)		**No**	
Laboratory Control Sample criteria met?		**No**	
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?		**No**	
Was the ICAL criteria met?		**No**	
Was the CCV criteria met?		**No**	
Was the Tuning criteria met?	**Yes**		
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**		
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks		**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20C012-BLK1		Nondetect			
E20C012-BLK2		Nondetect			
E20C019-BLK1		Nondetect			
E20C019-BLK2		Nondetect			
E20C016-BLK1		Nondetect			

Field Blank		**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
A11-FB001-200303		Nondetect			
A11-TB001-200303	cis-1,2-Dichloroethene	2.33	0.43 / 2.0	None	Sample results nondetect
A11-TB002-200304	cis-1,2-Dichloroethene	2.2	0.43 / 2.0	None	Sample results nondetect

Surrogates		**%R**	**Limit**	**Qualifiers**	**Associated Samples**
		Acceptable			

MS/MSD		**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
B20C019-MS1 / MSD1 (2003006-04RE1)	Carbon Disulfide	60.5 / 58.6	60-110	**J / UJ**	**2003006-04RE1****
B20D016-MS1 / MSD1 (2003006-08RE2)		Acceptable			

**Results reported from 2003006-04 - no qualification required

LCS/LCSD		**%R**	**Limits**	**Qualifiers**	**Associated Samples**
B20C012-BS1 / BSD1		Acceptable			
B20C019-BS1 / BSD1					
	Acetone	146 / 136	70-130	**J****	**2003006-03RE1 through 2003006-06RE1, 2003006-10RE1, 2003006-11RE1**
	2,2-Dichloropropane	110 / 62.6	70-130	**J / UJ**	
B20D016-BS1	Bromomethane	65.2	70-130	**J / UJ**	**2003006-05RE2 through 2003006-09RE2**

**Sample results nondetect - no qualifiers required.

ICAL		**RRF**	**%RSD**	**Limits**	**Qualifiers**	**Associated Samples**
3/5/2020 13:53	1,1-Dichloroethene	Acceptable	22.52	20	**J****	**All samples**
	Carbon Disulfide	Acceptable	20.18	20	**J****	**All samples**
	Carbon Tetrachloride	Acceptable	26.45	20	**J****	**All samples**
	Tetrachloroethene	Acceptable	21.62	20	**J****	**All samples**
	1,1,1-Trichloroethane	Acceptable	20.67	20	**J**	**All samples**

**Sample results nondetect - no qualifiers required.

ICV / CCV		**RRF**	**%D**	**Limits**	**Qualifiers**	**Associated Samples**
ICV						
3/05/2020 17:56	Acetone	Acceptable	96.5	40	**J / UJ**	**All samples**
3/05/2020 2:38		Acceptable	Acceptable			

CCV						
3/09/2020 8:39		Acceptable	Acceptable			
3/09/2020 17:15		Acceptable	Acceptable			
3/10/2020 17:12	Acetone	Acceptable	-46.5	40	J / UJ	2003006-03RE1 through 2003006-06RE1, 2003006-10RE1, 2003006-11RE1
3/11/2020 4:24	Acetone	Acceptable	-35.6	40	J / UJ	
3/11/2020 10:40	Bromomethane	Acceptable	35.2	30	J / UJ	2003006-05RE2 through 2003006-09RE2
	Carbon Disulfide	Acceptable	28	25	J / UJ	
	Trans 1,3-Dichloropropane	Acceptable	20.2	20	J / UJ	

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20C012-MRL1	Acceptable			

Tune
Acceptable

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
		Acceptable		

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 4.7 & 5.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:

As stated in the case narrative, samples were first screened at a 50x dilution and several dilution factors were subsequently required. Each analyte is reported at the lowest dilution factor for which the analyte concentration remained within calibration range.

Case narrative indicates co-elution affected the calculated concentration of n-butylbenzene in sample 2003006-05RE2. Potential bias of the quantification ion led to the result being qualified as estimated by the laboratory.

As stated in the case narrative, no -BSD1 is associated with the B20D016 batch due to an error in laboratory instrument that was not noticed or corrected until after the time frame required by the SOP for a closing CCV.

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 4/16/2020

Data Reviewer: Cherie Zakowski Date: 4/18/2020

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-200304 (2003006-01) **Matrix: Water** **Sampled: Mar-04-20 08:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**2.20**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-200304 (2003006-01) **Matrix: Water** **Sampled: Mar-04-20 08:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chlorobenzene	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	11.7	*117%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.9	*108%*	*84-122*	"	"	"
Toluene-d8	10.6	*106%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.12	*91.2%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200303 (2003006-02) **Matrix: Water** **Sampled: Mar-03-20 17:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200303 (2003006-02) **Matrix: Water** **Sampled: Mar-03-20 17:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.8	*108%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.7	*107%*	*84-122*	"	"	"
Toluene-d8	10.0	*100%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.28	*92.8%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-200303 (2003006-03RE1) **Matrix: Water** **Sampled: Mar-03-20 09:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20C019	Mar-10-20	Mar-10-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**4.51**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**6.74**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-200303 (2003006-03RE1) **Matrix: Water** **Sampled: Mar-03-20 09:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20C019	Mar-10-20	Mar-10-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.3	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.1	*110%*	*84-122*	"	"	"
Toluene-d8	9.78	*97.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.03	*90.3%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200304 (2003006-04) **Matrix: Water** **Sampled: Mar-04-20 13:35** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			100	ug/L	50	B20C012	Mar-06-20	Mar-09-20
Chloromethane	**U**			100	"	"	"	"	"
Vinyl chloride	**U**			100	"	"	"	"	"
Bromomethane	**U**			100	"	"	"	"	"
Chloroethane	**U**			100	"	"	"	"	"
Trichlorofluoromethane	**U**			100	"	"	"	"	"
1,1-Dichloroethene	**U**			100	"	"	"	"	"
Acetone	**U**			625	"	"	"	"	"
Carbon disulfide	**U**	(MS), L		100	"	"	"	"	"
Methylene chloride	**U**			100	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			100	"	"	"	"	"
1,1-Dichloroethane	**U**			100	"	"	"	"	"
2,2-Dichloropropane	**U**			100	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			100	"	"	"	"	"
2-Butanone	**U**			625	"	"	"	"	"
Bromochloromethane	**U**			100	"	"	"	"	"
Chloroform	**U**			100	"	"	"	"	"
1,1,1-Trichloroethane	**U**			100	"	"	"	"	"
Carbon tetrachloride	**U**			100	"	"	"	"	"
1,1-Dichloropropene	**U**			100	"	"	"	"	"
Benzene	**U**			100	"	"	"	"	"
1,2-Dichloroethane	**U**			100	"	"	"	"	"
Trichloroethene	**U**			100	"	"	"	"	"
1,2-Dichloropropane	**U**			100	"	"	"	"	"
Dibromomethane	**U**			100	"	"	"	"	"
Bromodichloromethane	**U**			100	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			100	"	"	"	"	"
4-Methyl-2-pentanone	**U**			250	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			100	"	"	"	"	"
1,1,2-Trichloroethane	**U**			100	"	"	"	"	"
Tetrachloroethene	**U**			100	"	"	"	"	"
1,3-Dichloropropane	**U**			100	"	"	"	"	"
2-Hexanone	**U**			250	"	"	"	"	"
Dibromochloromethane	**U**			100	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			100	"	"	"	"	"
Chlorobenzene	**U**			100	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			100	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200304 (2003006-04) **Matrix: Water** **Sampled: Mar-04-20 13:35** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	**U**			100	ug/L	50	B20C012	Mar-06-20	Mar-09-20
Bromoform	**U**			100	"	"	"	"	"
Isopropylbenzene	**121**			100	"	"	"	"	"
Bromobenzene	**U**			100	"	"	"	"	"
1,2,3-Trichloropropane	**U**			100	"	"	"	"	"
n-Propylbenzene	**215**			100	"	"	"	"	"
2-Chlorotoluene	**U**			100	"	"	"	"	"
1,3,5-Trimethylbenzene	**285**			100	"	"	"	"	"
4-Chlorotoluene	**U**			100	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			100	"	"	"	"	"
tert-Butylbenzene	**U**			100	"	"	"	"	"
1,2,4-Trimethylbenzene	**822**			100	"	"	"	"	"
sec-Butylbenzene	**U**			100	"	"	"	"	"
1,3-Dichlorobenzene	**U**			100	"	"	"	"	"
p-Isopropyltoluene	**U**			100	"	"	"	"	"
1,4-Dichlorobenzene	**U**			100	"	"	"	"	"
1,2-Dichlorobenzene	**U**			100	"	"	"	"	"
n-Butylbenzene	**U**			100	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			100	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			100	"	"	"	"	"
Hexachlorobutadiene	**U**			100	"	"	"	"	"
Naphthalene	**U**			100	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			100	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.5	*105%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.6	*105%*	*84-122*	"	"	"
Toluene-d8	10.3	*103%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.6	*106%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200304 (2003006-04RE1) **Matrix: Water** **Sampled: Mar-04-20 13:35** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**78600**			4000	ug/L	2000	B20C019	Mar-10-20	Mar-10-20
Ethylbenzene	**6840**			4000	"	"	"	"	"
m+p-Xylene	**19800**			8000	"	"	"	"	"
o-Xylene	**5100**			4000	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.3	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.1	*110%*	*84-122*	"	"	"
Toluene-d8	9.76	*97.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.45	*94.5%*	*84-108*	"	"	"

A11-MW003-200304 (2003006-05RE1) **Matrix: Water** **Sampled: Mar-04-20 09:05** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**1500**			400	ug/L	200	B20C019	Mar-10-20	Mar-10-20
m+p-Xylene	**13000**			800	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.4	*104%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.2	*111%*	*84-122*	"	"	"
Toluene-d8	9.78	*97.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.50	*95.0%*	*84-108*	"	"	"

A11-MW003-200304 (2003006-05RE2) **Matrix: Water** **Sampled: Mar-04-20 09:05** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			20.0	ug/L	10	B20D016	Mar-10-20	Mar-11-20
Chloromethane	**U**			20.0	"	"	"	"	"
Vinyl chloride	**U**			20.0	"	"	"	"	"
Bromomethane	**U**	(LCS), J		20.0	"	"	"	"	"
Chloroethane	**U**			20.0	"	"	"	"	"
Trichlorofluoromethane	**U**			20.0	"	"	"	"	"
1,1-Dichloroethene	**U**			20.0	"	"	"	"	"
Acetone	**U**			125	"	"	"	"	"
Carbon disulfide	**U**			20.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-200304 (2003006-05RE2) **Matrix: Water** **Sampled: Mar-04-20 09:05** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Methylene chloride	**U**			20.0	ug/L	10	B20D016	Mar-10-20	Mar-11-20
trans-1,2-Dichloroethene	**U**			20.0	"	"	"	"	"
1,1-Dichloroethane	**U**			20.0	"	"	"	"	"
2,2-Dichloropropane	**U**			20.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			20.0	"	"	"	"	"
2-Butanone	**U**			125	"	"	"	"	"
Bromochloromethane	**U**			20.0	"	"	"	"	"
Chloroform	**U**			20.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			20.0	"	"	"	"	"
Carbon tetrachloride	**U**			20.0	"	"	"	"	"
1,1-Dichloropropene	**U**			20.0	"	"	"	"	"
Benzene	**U**			20.0	"	"	"	"	"
1,2-Dichloroethane	**U**			20.0	"	"	"	"	"
Trichloroethene	**U**			20.0	"	"	"	"	"
1,2-Dichloropropane	**U**			20.0	"	"	"	"	"
Dibromomethane	**U**			20.0	"	"	"	"	"
Bromodichloromethane	**U**			20.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			20.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			50.0	"	"	"	"	"
Toluene	**38.4**			20.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			20.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			20.0	"	"	"	"	"
Tetrachloroethene	**U**			20.0	"	"	"	"	"
1,3-Dichloropropane	**U**			20.0	"	"	"	"	"
2-Hexanone	**U**			50.0	"	"	"	"	"
Dibromochloromethane	**U**			20.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			20.0	"	"	"	"	"
Chlorobenzene	**U**			20.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			20.0	"	"	"	"	"
o-Xylene	**U**			20.0	"	"	"	"	"
Styrene	**U**			20.0	"	"	"	"	"
Bromoform	**U**			20.0	"	"	"	"	"
Isopropylbenzene	**74.4**			20.0	"	"	"	"	"
Bromobenzene	**U**			20.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			20.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-200304 (2003006-05RE2) **Matrix: Water** **Sampled: Mar-04-20 09:05** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
n-Propylbenzene	**76.0**			20.0	ug/L	10	B20D016	Mar-10-20	Mar-11-20
2-Chlorotoluene	**U**			20.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**121**			20.0	"	"	"	"	"
4-Chlorotoluene	**U**			20.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			20.0	"	"	"	"	"
tert-Butylbenzene	**U**			20.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**329**			20.0	"	"	"	"	"
sec-Butylbenzene	**27.8**			20.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			20.0	"	"	"	"	"
p-Isopropyltoluene	**U**			20.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			20.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			20.0	"	"	"	"	"
n-Butylbenzene	**23.7**	J		20.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			20.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			20.0	"	"	"	"	"
Hexachlorobutadiene	**U**			20.0	"	"	"	"	"
Naphthalene	**29.1**			20.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			20.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.48	*94.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.6	*105%*	*84-122*	"	"	"
Toluene-d8	9.37	*93.7%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.2	*102%*	*84-108*	"	"	"

A11-MW004A-200304 (2003006-06RE1) **Matrix: Water** **Sampled: Mar-04-20 15:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**45300**			2000	ug/L	1000	B20C019	Mar-10-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.61	*95.5%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.9	*108%*	*84-122*	"	"	"
Toluene-d8	9.86	*98.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.80	*88.0%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200304 (2003006-06RE2) **Matrix: Water** **Sampled: Mar-04-20 15:20** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			50.0	ug/L	25	B20D016	Mar-10-20	Mar-11-20
Chloromethane	**U**			50.0	"	"	"	"	"
Vinyl chloride	**U**			50.0	"	"	"	"	"
Bromomethane	**U**	(LCS), J		50.0	"	"	"	"	"
Chloroethane	**U**			50.0	"	"	"	"	"
Trichlorofluoromethane	**U**			50.0	"	"	"	"	"
1,1-Dichloroethene	**U**			50.0	"	"	"	"	"
Acetone	**U**			312	"	"	"	"	"
Carbon disulfide	**U**			50.0	"	"	"	"	"
Methylene chloride	**U**			50.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
1,1-Dichloroethane	**U**			50.0	"	"	"	"	"
2,2-Dichloropropane	**U**			50.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
2-Butanone	**U**			312	"	"	"	"	"
Bromochloromethane	**U**			50.0	"	"	"	"	"
Chloroform	**U**			50.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			50.0	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			50.0	"	"	"	"	"
Benzene	**U**			50.0	"	"	"	"	"
1,2-Dichloroethane	**U**			50.0	"	"	"	"	"
Trichloroethene	**U**			50.0	"	"	"	"	"
1,2-Dichloropropane	**U**			50.0	"	"	"	"	"
Dibromomethane	**U**			50.0	"	"	"	"	"
Bromodichloromethane	**U**			50.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			125	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			50.0	"	"	"	"	"
Tetrachloroethene	**U**			50.0	"	"	"	"	"
1,3-Dichloropropane	**U**			50.0	"	"	"	"	"
2-Hexanone	**U**			125	"	"	"	"	"
Dibromochloromethane	**U**			50.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200304 (2003006-06RE2) **Matrix: Water** **Sampled: Mar-04-20 15:20** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chlorobenzene	**U**			50.0	ug/L	25	B20D016	Mar-10-20	Mar-11-20
1,1,1,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
Ethylbenzene	**260**			50.0	"	"	"	"	"
m+p-Xylene	**414**			100	"	"	"	"	"
o-Xylene	**U**			50.0	"	"	"	"	"
Styrene	**U**			50.0	"	"	"	"	"
Bromoform	**U**			50.0	"	"	"	"	"
Isopropylbenzene	**U**			50.0	"	"	"	"	"
Bromobenzene	**U**			50.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			50.0	"	"	"	"	"
n-Propylbenzene	**U**			50.0	"	"	"	"	"
2-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			50.0	"	"	"	"	"
4-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
tert-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			50.0	"	"	"	"	"
sec-Butylbenzene	**U**			50.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			50.0	"	"	"	"	"
p-Isopropyltoluene	**U**			50.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			50.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			50.0	"	"	"	"	"
n-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			50.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			50.0	"	"	"	"	"
Hexachlorobutadiene	**U**			50.0	"	"	"	"	"
Naphthalene	**U**			50.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			50.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.57	*95.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.2	*111%*	*84-122*	"	"	"
Toluene-d8	9.86	*98.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.19	*91.9%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-200303 (2003006-07RE2) **Matrix: Water** **Sampled: Mar-03-20 16:05** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**	(LCS), J		2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**5.86**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**5.29**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-200303 (2003006-07RE2) **Matrix: Water** **Sampled: Mar-03-20 16:05** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromoethane (EDB)	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.3	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.4	*113%*	*84-122*	"	"	"
Toluene-d8	9.83	*98.3%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.72	*87.2%*	*84-108*	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-200303 (2003006-08RE2) **Matrix: Water** **Sampled: Mar-03-20 13:40** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**	(LCS), J		2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**	(MS), L		2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**3.77**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**2.92**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-200303 (2003006-08RE2) **Matrix: Water** **Sampled: Mar-03-20 13:40** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromoethane (EDB)	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.5	*114%*	*84-122*	"	"	"
Toluene-d8	9.56	*95.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.61	*86.1%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-200303 (2003006-09RE2) **Matrix: Water** **Sampled: Mar-03-20 11:00** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**	(LCS), J		2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**2.62**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-200303 (2003006-09RE2) **Matrix: Water** **Sampled: Mar-03-20 11:00** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromoethane (EDB)	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.85	*98.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.1	*110%*	*84-122*	"	"	"
Toluene-d8	9.35	*93.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.88	*88.8%*	*84-108*	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200304 (2003006-10) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**959**			100	ug/L	50	B20C012	Mar-06-20	Mar-09-20
m+p-Xylene	**3050**			200	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.9	*109%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.0	*110%*	*84-122*	"	"	"
Toluene-d8	10.3	*103%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.67	*96.7%*	*84-108*	"	"	"

A11-MW007-200304 (2003006-10RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			4.00	ug/L	2	B20C019	Mar-10-20	Mar-11-20
Chloromethane	**U**			4.00	"	"	"	"	"
Vinyl chloride	**U**			4.00	"	"	"	"	"
Bromomethane	**U**			4.00	"	"	"	"	"
Chloroethane	**U**			4.00	"	"	"	"	"
Trichlorofluoromethane	**U**			4.00	"	"	"	"	"
1,1-Dichloroethene	**U**			4.00	"	"	"	"	"
Acetone	**U**			25.0	"	"	"	"	"
Carbon disulfide	**U**			4.00	"	"	"	"	"
Methylene chloride	**U**			4.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			4.00	"	"	"	"	"
1,1-Dichloroethane	**U**			4.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		4.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			4.00	"	"	"	"	"
2-Butanone	**U**			25.0	"	"	"	"	"
Bromochloromethane	**U**			4.00	"	"	"	"	"
Chloroform	**U**			4.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			4.00	"	"	"	"	"
Carbon tetrachloride	**U**			4.00	"	"	"	"	"
1,1-Dichloropropene	**U**			4.00	"	"	"	"	"
Benzene	**U**			4.00	"	"	"	"	"
1,2-Dichloroethane	**U**			4.00	"	"	"	"	"
Trichloroethene	**U**			4.00	"	"	"	"	"
1,2-Dichloropropane	**U**			4.00	"	"	"	"	"
Dibromomethane	**U**			4.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200304 (2003006-10RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromodichloromethane	**U**			4.00	ug/L	2	B20C019	Mar-10-20	Mar-11-20
cis-1,3-Dichloropropene	**U**			4.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			10.0	"	"	"	"	"
Toluene	**U**			4.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			4.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			4.00	"	"	"	"	"
Tetrachloroethene	**U**			4.00	"	"	"	"	"
1,3-Dichloropropane	**U**			4.00	"	"	"	"	"
2-Hexanone	**U**			10.0	"	"	"	"	"
Dibromochloromethane	**U**			4.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			4.00	"	"	"	"	"
Chlorobenzene	**U**			4.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			4.00	"	"	"	"	"
Styrene	**U**			4.00	"	"	"	"	"
Bromoform	**U**			4.00	"	"	"	"	"
Isopropylbenzene	**12.0**			4.00	"	"	"	"	"
Bromobenzene	**U**			4.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			4.00	"	"	"	"	"
n-Propylbenzene	**6.68**			4.00	"	"	"	"	"
2-Chlorotoluene	**U**			4.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**4.84**			4.00	"	"	"	"	"
4-Chlorotoluene	**U**			4.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			4.00	"	"	"	"	"
tert-Butylbenzene	**U**			4.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**22.6**			4.00	"	"	"	"	"
sec-Butylbenzene	**U**			4.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			4.00	"	"	"	"	"
p-Isopropyltoluene	**U**			4.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			4.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			4.00	"	"	"	"	"
n-Butylbenzene	**U**			4.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			4.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			4.00	"	"	"	"	"
Hexachlorobutadiene	**U**			4.00	"	"	"	"	"
Naphthalene	**U**			4.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			4.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200304 (2003006-10RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.74			*96.8%*		*73-124*	*B20C019*	*Mar-10-20*	*Mar-11-20*
1,2-Dichloroethane-d4	10.7			*106%*		*84-122*	"	"	"
Toluene-d8	9.63			*96.3%*		*88-108*	"	"	"
4-Bromofluorobenzene	10.6			*106%*		*84-108*	"	"	"

A11-MW007-200304-D (2003006-11) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**863**			100	ug/L	50	B20C012	Mar-06-20	Mar-09-20
m+p-Xylene	**2800**			200	"	"	"	"	"
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.7			*106%*		*73-124*	"	"	"
1,2-Dichloroethane-d4	11.1			*110%*		*84-122*	"	"	"
Toluene-d8	10.4			*104%*		*88-108*	"	"	"
4-Bromofluorobenzene	9.80			*98.0%*		*84-108*	"	"	"

A11-MW007-200304-D (2003006-11RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			4.00	ug/L	2	B20C019	Mar-10-20	Mar-10-20
Chloromethane	**U**			4.00	"	"	"	"	"
Vinyl chloride	**U**			4.00	"	"	"	"	"
Bromomethane	**U**			4.00	"	"	"	"	"
Chloroethane	**U**			4.00	"	"	"	"	"
Trichlorofluoromethane	**U**			4.00	"	"	"	"	"
1,1-Dichloroethene	**U**			4.00	"	"	"	"	"
Acetone	**U**			25.0	"	"	"	"	"
Carbon disulfide	**U**			4.00	"	"	"	"	"
Methylene chloride	**U**			4.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			4.00	"	"	"	"	"
1,1-Dichloroethane	**U**			4.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		4.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			4.00	"	"	"	"	"
2-Butanone	**U**			25.0	"	"	"	"	"

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77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200304-D (2003006-11RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromochloromethane	**U**			4.00	ug/L	2	B20C019	Mar-10-20	Mar-10-20
Chloroform	**U**			4.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			4.00	"	"	"	"	"
Carbon tetrachloride	**U**			4.00	"	"	"	"	"
1,1-Dichloropropene	**U**			4.00	"	"	"	"	"
Benzene	**U**			4.00	"	"	"	"	"
1,2-Dichloroethane	**U**			4.00	"	"	"	"	"
Trichloroethene	**U**			4.00	"	"	"	"	"
1,2-Dichloropropane	**U**			4.00	"	"	"	"	"
Dibromomethane	**U**			4.00	"	"	"	"	"
Bromodichloromethane	**U**			4.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			4.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			10.0	"	"	"	"	"
Toluene	**U**			4.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			4.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			4.00	"	"	"	"	"
Tetrachloroethene	**U**			4.00	"	"	"	"	"
1,3-Dichloropropane	**U**			4.00	"	"	"	"	"
2-Hexanone	**U**			10.0	"	"	"	"	"
Dibromochloromethane	**U**			4.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			4.00	"	"	"	"	"
Chlorobenzene	**U**			4.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			4.00	"	"	"	"	"
Styrene	**U**			4.00	"	"	"	"	"
Bromoform	**U**			4.00	"	"	"	"	"
Isopropylbenzene	**11.0**			4.00	"	"	"	"	"
Bromobenzene	**U**			4.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			4.00	"	"	"	"	"
n-Propylbenzene	**6.03**			4.00	"	"	"	"	"
2-Chlorotoluene	**U**			4.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**4.57**			4.00	"	"	"	"	"
4-Chlorotoluene	**U**			4.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			4.00	"	"	"	"	"
tert-Butylbenzene	**U**			4.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**21.0**			4.00	"	"	"	"	"
sec-Butylbenzene	**U**			4.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200304-D (2003006-11RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3-Dichlorobenzene	**U**			4.00	ug/L	2	B20C019	Mar-10-20	Mar-10-20
p-Isopropyltoluene	**U**			4.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			4.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			4.00	"	"	"	"	"
n-Butylbenzene	**U**			4.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			4.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			4.00	"	"	"	"	"
Hexachlorobutadiene	**U**			4.00	"	"	"	"	"
Naphthalene	**U**			4.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			4.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.9	*109%*	*84-122*	"	"	"
Toluene-d8	9.90	*99.0%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.7	*107%*	*84-108*	"	"	"

A11-TB001-200303 (2003006-12) **Matrix: Water** **Sampled: Mar-03-20 08:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**2.33**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-200303 (2003006-12) **Matrix: Water** **Sampled: Mar-03-20 08:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1-Trichloroethane	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-200303 (2003006-12) **Matrix: Water** **Sampled: Mar-03-20 08:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3-Dichlorobenzene	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.7	*106%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.5	*104%*	*84-122*	"	"	"
Toluene-d8	10.4	*104%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.22	*92.2%*	*84-108*	"	"	"

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 20030087
Laboratory: STAT Analysis Corporation / Eurofins Test America

Matrix: Groundwater
Collection date: 03/03/20
Analysis/Methods:

Wet Chemistry:
Anions 300.0
Alkalinity M2320 B
Dissolved Gases - Methane - RSK-175

Samples in SDG:

Lab ID	Sample Number
20030087-01	A11-MW001-200303
20030087-02	A11-MW005-200303
20030087-03	A11-MW006-200303
20030087-04	A11-MW004B-200303

Data validation was performed in accordance with the specific analytical methods, the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017), National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters

Precision:	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**Yes**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
N/A					

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
Nitrogen, Nitrate				
20030087-001BMS/BMSD (20030087-01)	Acceptable	20%		
Sulfate				
20030087-001BMS/BMSD (20030087-01)	Acceptable	20%		
Alkalinity				
20030087-001BMS/BMSD	Acceptable	20%		

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**No**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks		**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate					
ICMBW1 030720	Nitrogen	0.048 J	0.2	None	Sample results > RL
Sulfate					
ICMBW1 030720	Sulfate	0.395 J	4.0	None	Sample results > RL
Alkalinity					
ALKMBW1 030720		Nondetect			

ICB/CCB		**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
ICB	Nitrogen, Nitrate	0.05	0.2	None	Sample results > RL
ICB	Sulfate	0.363	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.05	0.2	None	Sample results > RL
CCB	Sulfate	0.379	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.051	0.2	None	Sample results > RL
CCB	Sulfate	0.381	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.054	0.2	None	Sample results > RL
CCB	Sulfate	0.365	4.0	None	Sample results > RL

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
20030087-001BMS/BMSD (20030087-01)	Acceptable	90-110		
Sulfate				
20030087-001BMS/BMSD (20030087-01)	Acceptable	90-110		
Alkalinity				
17030290-003BMS/MSD	Acceptable	75-125		

LCS/LCSD	**%R**	**Limits**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
ICLCSW1 030720	Acceptable	90-110		
Sulfate				
ICLCSW1 030720	Acceptable	90-110		
Alkalinity				
ALKLCSW1 030720	Acceptable	90-110		

ICV		**%R**	**Limits**	**Qualifiers**	**Associated Samples**
March 7 - 21:45	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		**%R**	**Limits**	**Qualifiers**	**Associated Samples**
March 7 - 21:32	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			
March 8 - 00:23	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Methane (RSK-175)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**Yes**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Methane				
608-181174-1 MS/MSD	Acceptable			

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
Methane				
LCS 680-610346 / 3 / 4	Acceptable			
LCS 680-611124 / 6 / 7	Acceptable			

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Methane				
MB 680-610346 / 8	Nondetect			
MB 680-611124 / 8	Nondetect			

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
Methane				
608-181174-1 MS/MSD	Acceptable			

LCS/LCSD	**%R**	**Limits**	**Qualifiers**	**Associated Samples**
Methane				
LCS 680-610346 / 3 / 4	Acceptable			
LCS 680-611124 / 6 / 7	Acceptable			

ICAL	**RRF**	**%RSD**	**Qualifiers**	**Associated Samples**
3/4/2020 9:12	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
3/10/2020 15:13	Acceptable	Acceptable			
3/10/2020 19:01	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 3.1 and 1.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable as reported.

Data Validator: Kristine Molloy Date: 12/5/2020

Data Reviewer: Cherie Zakowski Date: 12/8/2021

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: March 30, 2020
Date Printed: March 30, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 20030087 Revision 0

Lab ID: 20030087-001 **Collection Date:** 3/3/2020 9:20:00 AM
Client Sample ID A11-MW001-200303 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	3.5	0.20	*	mg/L	1	3/7/2020
Sulfate	45	4.0	*	mg/L	1	3/7/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	360	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00058		mg/L	1	3/10/2020

Lab ID: 20030087-002 **Collection Date:** 3/3/2020 1:40:00 PM
Client Sample ID A11-MW005-200303 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	2.5	0.20	*	mg/L	1	3/7/2020
Sulfate	31	4.0	*	mg/L	1	3/7/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	320	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00058		mg/L	1	3/10/2020

Lab ID: 20030087-003 **Collection Date:** 3/3/2020 11:00:00 AM
Client Sample ID A11-MW006-200303 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	3/7/2020
Sulfate	35	4.0	*	mg/L	1	3/7/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	490	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	3.3	0.39		mg/L	1	3/16/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: March 30, 2020
Date Printed: March 30, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 20030087 Revision 0

Lab ID: 20030087-004 **Collection Date:** 3/3/2020 4:05:00 PM
Client Sample ID A11-MW004B-200303 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	1.1	0.20	*	mg/L	1	3/7/2020
Sulfate	19	4.0	*	mg/L	1	3/7/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	330	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00058		mg/L	1	3/10/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 20030133
Laboratory: STAT Analysis Corporation / Eurofins Test America

Matrix: Groundwater
Collection date: 03/04/20
Analysis/Methods:

Wet Chemistry:
Anions 300.0
Alkalinity M2320 B
Dissolved Gases - Methane - RSK-175

Samples in SDG:

Lab ID	Sample Number
20030133-001	A11-MW003-200304
20030133-002	A11-MW002-200304
20030133-003	A11-MW007-200304
20030133-004	A11-MW004A-200304
20030133-005	A11-MW004A-200304-D

Data validation was performed in accordance with the specific analytical methods, the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample A11-MW004A-200304**	**Duplicate A11-MW004A-200304-D**	**%RPD**	**Qualifiers**	**Associated Samples**
			Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
20030087-001BMS/BMSD	Acceptable	20%		
Sulfate				
20030087-001BMS/BMSD	Acceptable	20%		
Alkalinity				
20030087-001BMS/BMSD	Acceptable	20%		

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**No**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks		Concentration	MDL /PQL	Qualifiers	Associated Samples
Nitrogen, Nitrate					
ICMBW1 030720	Nitrogen	0.048 J	0.2	None	Sample results > RL
Sulfate					
ICMBW1 030720	Sulfate	0.395 J	4.0	None	Sample results > RL
Alkalinity					
ALKMBW1 030720		Nondetect			

ICB/CCB		Concentration	MDL / PQL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	0.05	0.2	None	Sample results > RL
ICB	Sulfate	0.363	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.05	0.2	None	Sample results > RL
CCB	Sulfate	0.379	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.051	0.2	None	Sample results > RL
CCB	Sulfate	0.381	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.05	0.2	None	Sample results > RL
CCB	Sulfate	0.359	4.0	None	Sample results > RL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
Nitrogen, Nitrate				
20030087-001BMS/BMSD	Acceptable	90-110		
Sulfate				
20030087-001BMS/BMSD	Acceptable	90-110		
Alkalinity				
20030087-001BMS/BMSD	Acceptable	75-125		

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate				
ICLCSW1 030720	Acceptable	90-110		
Sulfate				
ICLCSW1 030720	Acceptable	90-110		
Alkalinity				
ALKLCSW1 030720	Acceptable	80-120		

ICV		%R	Limits	Qualifiers	Associated Samples
March 7 - 21:45	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
March 7 - 21:32	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			
March 8 - 00:23	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			
March 8 - 04:02	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Methane (RSK-175)

Precision:

	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?	Yes		
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			N/A
Laboratory Control Spike Duplicates RPD within limits?	Yes		
Laboratory Duplicate RPDs within limits?			N/A

Comments (note deviations):

Field Duplicates	Sample A11-MW004A-200304	Duplicate A11-MW004A-200304-D	%RPD	Qualifiers	Associated Samples
			Acceptable		

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
N/A				

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
Methane				
LCS 680-611285/ 3 / 4	Acceptable			
LCS 680-611285/ 6 / 7	Acceptable			

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:

	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			N/A
Laboratory Control Sample criteria met?	Yes		
Were the Laboratory Method Blank results all < RL?	Yes		
Were the Field Blanks results all < RL?			N/A
Was the ICAL criteria met?	Yes		
Was the CCV criteria met?	Yes		
Was the Tuning criteria met?			N/A
Were the Surrogate % recoveries within laboratory determined control limits?			N/A
Were the Internal Standard areas within ± 50 - 150%?			N/A

Comments (note deviations):

Blanks	Concentration (mg/L)	MDL /PQL	Qualifiers	Associated Samples
Methane				
MB 680-611285/ 8	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
N/A				

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Methane				
LCS 680-611285/ 3 / 4	Acceptable			
LCS 680-611285/ 6 / 7	Acceptable			

ICAL	RRF	%RSD	Qualifiers	Associated Samples
2/17/2020 8:45	Acceptable	Acceptable		
3/04/2020 9:12	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
3/17/2020 17:11	Acceptable	Acceptable			
3/17/2020 17:37	Acceptable	Acceptable			
3/17/2020 20:35	Acceptable	Acceptable			
3/17/2020 8:38	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 1.8 and 1.4 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable as reported.

Data Validator: Kristine Molloy Date: 1/22/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

STAT Analysis Corporation
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Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: March 30, 2020
Date Printed: March 30, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 20030133 Revision 0

Lab ID: 20030133-001 **Collection Date:** 3/4/2020 9:05:00 AM
Client Sample ID A11-MW003-200304 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	3/7/2020
Sulfate	ND	4.0	*	mg/L	1	3/7/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	410	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	12	0.39		mg/L	1	3/17/2020

Lab ID: 20030133-002 **Collection Date:** 3/4/2020 1:35:00 PM
Client Sample ID A11-MW002-200304 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	3/8/2020
Sulfate	ND	4.0	*	mg/L	1	3/8/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	16	0.39		mg/L	1	3/17/2020

Lab ID: 20030133-003 **Collection Date:** 3/4/2020 11:20:00 AM
Client Sample ID A11-MW007-200304 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	3/8/2020
Sulfate	24	4.0	*	mg/L	1	3/8/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	330	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	5.5	0.39		mg/L	1	3/17/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: March 30, 2020
Date Printed: March 30, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 20030133 Revision 0

Lab ID: 20030133-004 **Collection Date:** 3/4/2020 3:20:00 PM
Client Sample ID A11-MW004A-200304 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	0.28	0.20	*	mg/L	1	3/8/2020
Sulfate	36	4.0	*	mg/L	1	3/8/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	330	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.51	0.00058		mg/L	1	3/17/2020

Lab ID: 20030133-005 **Collection Date:** 3/4/2020 3:20:00 PM
Client Sample ID A11-MW004A-200304-D **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	0.38	0.20	*	mg/L	1	3/8/2020
Sulfate	36	4.0	*	mg/L	1	3/8/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	320	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.47	0.00058		mg/L	1	3/17/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

June 2020 Data Validation Reports and Data Packages

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: E200604
Laboratory: ESAT / TechLaw

Matrix: Water
Collection date: 6/9/2020 & 6/10/2020
Analysis/Methods:

1,4-Dioxane - EPA 522 SIM

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
E200604-01	A11-TB001-200609	E200604-07	A11-MW003-200610
E200604-02	A11-MW006-200609	E200604-08	A11-MW007-200610
E200604-03	A11-MW005-200609	E200604-09	A11-MW007-200610-D
E200604-04	A11-MW001-200609	E200604-10	A11-MW002-200610
E200604-05	A11-MW004B-200609	E200604-11	A11-MW004A-200610
E200604-06	A11-FB001-200609		

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

1,4-Dioxane EPA 520 SIM

Precision:

	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			Yes
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			Yes
Laboratory Control Spike Duplicates RPD within limits?			Yes
Laboratory Duplicate RPDs within limits?			N/A

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
	A11-MW007-200610	A11-MW007-200610-D			
	ND	ND	Acceptable		

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
E20F013-MS1 / MSD1	Acceptable			

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
E20F013-BS1 / BSD1	Acceptable			

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:

	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			Yes
Laboratory Control Sample criteria met?			Yes
Were the Laboratory Method Blank results all < RL?			Yes
MRL recoveries within criteria?			Yes
Were the Field Blanks results all < RL?			Yes
Was the ICAL criteria met?			Yes
Was the CCV criteria met?			Yes
Was the Tuning criteria met?			Yes
Were the Surrogate % recoveries within laboratory determined control limits?			Yes
Were the Internal Standard areas within ± 50 - 150%?			Yes

Comments (note deviations):

Blanks	Concentration (µg/L)	MDL /RL	Qualifiers	Associated Samples
E20F013-BLK1	Nondetect			

Field Blank	Concentration	MDL /RL	Qualifiers	Associated Samples
A11-TB001-200609	Nondetect			
A11-FB001-200609	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
	Acceptable			

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20F013-MS1 / MSD1	Acceptable			

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20F013-BS1 / BSD1	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
E20F013-MRL1	Acceptable			

ICAL	RRF	%RSD	Qualifiers	Associated Samples
5/ 27 / 2020 - 13:20	Acceptable	Acceptable		

ICV / CCV	RRF	%D	Qualifiers	Associated Samples
ICV				
5/ 27 / 2020 - 13:00	Acceptable	Acceptable		
CCV				
6/ 24 / 2020 - 10:03	Acceptable	Acceptable		
6/ 24 / 2020 - 5:42	Acceptable	Acceptable		

Tune
Acceptable

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
	Acceptable			

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was 4.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Analysis	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment: Data is usable as reported.

Data Validator: Kristine Molloy Date: 1/22/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

TechLaw Inc ESAT Region 5
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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Jul-16-20 13:56

1,4-Dioxane by GC-MS
TechLaw - ESAT Contract

A11-TB001-200609 (E200604-01) **Matrix: Water** **Sampled: Jun-09-20 08:00** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.207	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.918			*88.8%*		*64-109*	"	"	"

A11-MW006-200609 (E200604-02) **Matrix: Water** **Sampled: Jun-09-20 11:00** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**7.53**			0.203	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.02			*101%*		*64-109*	"	"	"

A11-MW005-200609 (E200604-03) **Matrix: Water** **Sampled: Jun-09-20 16:15** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**8.83**			0.205	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.977			*95.4%*		*64-109*	"	"	"

A11-MW001-200609 (E200604-04) **Matrix: Water** **Sampled: Jun-09-20 08:40** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**14.1**			0.207	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.09			*106%*		*64-109*	"	"	"

A11-MW004B-200609 (E200604-05) **Matrix: Water** **Sampled: Jun-09-20 13:05** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**11.7**			0.208	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.10			*106%*		*64-109*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Jul-16-20 13:56

1,4-Dioxane by GC-MS
TechLaw - ESAT Contract

A11-FB001-200609 (E200604-06) **Matrix: Water** **Sampled: Jun-09-20 17:30** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.207	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.04			*101%*		*64-109*	"	"	"

A11-MW003-200610 (E200604-07) **Matrix: Water** **Sampled: Jun-10-20 08:05** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**9.58**			0.205	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.03			*100%*		*64-109*	"	"	"

A11-MW007-200610 (E200604-08) **Matrix: Water** **Sampled: Jun-10-20 09:50** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.205	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.943			*92.0%*		*64-109*	"	"	"

A11-MW007-200610-D (E200604-09) **Matrix: Water** **Sampled: Jun-10-20 09:50** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.205	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.984			*96.1%*		*64-109*	"	"	"

A11-MW002-200610 (E200604-10) **Matrix: Water** **Sampled: Jun-10-20 12:10** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**4.03**			0.207	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.01			*97.4%*		*64-109*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Jul-16-20 13:56

1,4-Dioxane by GC-MS

TechLaw - ESAT Contract

A11-MW004A-200610 (E200604-11) **Matrix: Water** **Sampled: Jun-10-20 14:25** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**1.51**			0.203	ug/L	1	E20F013	Jun-23-20	Jun-24-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.915	*90.0%*	*64-109*	"	"	"

Techlaw Document Controlled Number: 83074-8-33-704-DV-1330
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND AND EMERGENCY MANAGEMENT DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: July 13, 2020

FROM: Allison Harvey, TechLaw Inc.
Contractor, Environmental Services Assistance Team (ESAT)

THROUGH: Michelle Kerr
Region 5 ESAT Contracting Officer's Representative

TO: Data User: CDM Smith
Email Address: grabsjc@cdm.com

This package was requested and reviewed as a Stage 4 Validation Electronic and Manual Deliverable (S4VEM)

We have reviewed the data for the following case:

SITE Name: Southeast Rockford Groundwater Contamination (IL)

Case No: 48947 MA No: N/A SDG No: E3YF9

Number and Type of Samples: 11 waters (6 Trace Volatiles/ 5 L/M Volatiles)

Sample Numbers: E3YF9, E3YG0 – E3YG9

Laboratory: Chemtech Consulting Group (CHM) Hrs. for Review:

Following are our findings:

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eleven (11) water samples were shipped to Chemtech Consulting Group (CHM) located in Mountainside, NJ. All samples were collected 06/09-10/2020 and received on 06/11/2020 intact and properly cooled. Six (6) samples; E3YF9 and E3YG0 thru E3YG4, were analyzed for the trace volatile analytes. Five (5) samples; E3YG5 thru E3YG9, were analyzed for the low level volatile analytes. All samples were analyzed according to CLP SOW SOM02.4, [Oct 2016] and reviewed according to the June 2010 Rev 1, March, 2014 Rev 2 QAPPs for Southeast Rockford Groundwater Contamination Site, the Illinois State QAPP, the September 2017 NFG for SOM02.4 (EPA-540-R-2017-002) and the Region 5 Organic CLP Validation SOP (DCN 83074-8-33-601-SO-1143.R1).

Samples E3YG1 and E3YG8 were designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

Sample E3YF9 was identified as a trip blank. Sample E3YG4 was identified as a field blank. Sample E3YG7 was identified as a field duplicate of sample E3YG6.

Only the qualifications reflected in the EXES Sample Summary report are described in this narrative.

1. PRESERVATION AND HOLDING TIMES

NONE FOUND.

2. GC/MS and GC/ECD INSTRUMENT PERFORMANCE CHECK

NONE FOUND.

3. INITIAL CALIBRATION

NONE FOUND.

4. INITIAL CALIBRATION VERIFICATION

NONE FOUND.

5. CONTINUING CALIBRATION

Method – Volatile Organics

EXES-1209
The following samples are associated with an opening or closing CCV with % Difference exceeding criteria. Detects are qualified as estimated J. Non-detects are qualified as estimated UJ.

E3YG5, E3YG6, E3YG7, E3YG8, E3YG8MS, E3YG8MSD, VBLK85
Toluene

6. BLANKS

Method – Trace Volatiles

The following samples have analyte results reported less than CRQLs. The associated method blank results are less than CRQL. Detects are qualified U. Sample results have been reported at CRQLs.

VHBLK01
Methylene chloride

The following samples have analyte results reported less than CRQLs. The associated trip blank (E3YF9) is less than CRQLs. Detects are qualified U. Sample results have been reported at CRQLs.

E3YG0, E3YG1, E3YG1MS, E3YG2, E3YG4
Acetone

E3YG0, E3YG4
cis-1,2-Dichloroethene

7. DEUTERATED MONITORING COMPOUNDS / SURROGATES

Method – Trace Volatiles

EXES-982
The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria. Detects are qualified as estimated J+. Non-detects are not qualified.

E3YF9
Acetone, 2-Butanone, 4-Methyl-2-pentanone, 2-Hexanone

E3YG1, E3YG1MS, E3YG2, E3YG3, E3YG4
4-Methyl-2-pentanone, 2-Hexanone

E3YG1MSD
4-Methyl-2-pentanone, 2-Hexanone, Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Method – Volatile Organics

EXES-1217
The following matrix spike/matrix spike duplicate samples have percent recoveries less than the expanded minimum criteria. Detects in the unspiked sample are qualified as estimated J. Non-detects in the unspiked sample are qualified as unusable R.

E3YG8MS, E3YG8MSD
Toluene

EXES-559
The relative percent difference (RPD) between the following matrix spike and matrix spike duplicate recoveries is outside criteria. Detects in the unspiked sample are qualified as estimated J. Non-detects in the unspiked sample are not qualified.

E3YG8MS, E3YG8MSD
Toluene

9. CLEANUP PROCEDURES

Not required for these analyses.

10. LABORATORY CONTROL SAMPLE

Not required for these analyses.

11. INTERNAL STANDARD

NONE FOUND.

12. TARGET ANALYTE QUANTITATION LIMIT

Method – Trace Volatiles

EXES-790
The following samples have analyte results greater than or equal to method detection limit (MDL) and below contract required quantitation limit (CRQL). Detects are qualified as estimated J.

E3YF9
Acetone, cis-1,2-Dichloroethene

E3YG0
Chloroethane, 1,1-Dichloroethane, Cyclohexane, Trichloroethene, Isopropylbenzene

E3YG1, E3YG1MS, E3GY1MSD
trans-1,2-Dichloroethene, Chloroform, Bromodichloromethane, Tetrachloroethene, Dibromochloromethane

E3YG2
trans-1,2-Dichloroethene

E3YG3
trans-1,2-Dichloroethene, Tetrachloroethene

E3YG4
Carbon disulfide, 2-Butanone

VBLK09
Methylene chloride

Method – Volatile Organics

EXES-790
The following samples have analyte results greater than or equal to method detection limit (MDL) and below contract required quantitation limit (CRQL). Detects are qualified as estimated J.

E3YG5
Chloroethane, 1,1,1-Trichloroethane, 4-Methyl-2-pentanone

E3YG6, E3YG7
Methylcyclohexane, Tetrachloroethene

E3YG8
Vinyl chloride, Acetone, 1,1,1-Trichloroethane, Trichloroethene

E3YG8MS, E3YG8MSD
Vinyl chloride, Acetone, 1,1,1-Trichloroethane, 1,2-Dichlorobenzene

E3YG9
1,1,1-Trichloroethane, Cyclohexane, Trichloroethene, Isopropylbenzene

13. TENTATIVELY IDENTIFIED COMPOUNDS

Not Validated

14. SYSTEM PERFORMANCE

No problems found.

15. FIELD QC SAMPLES

Sample E3YF9 was identified as a trip blank. Sample E3YG4 was identified as a field blank. Sample E3YG7 was identified as a field duplicate of sample E3YG6.

Results are summarized in the following table:

Sample Type:	Trip Blank	Field Blank
Sample #:	A11-TB001-200609	A11-FB001-200609
CLP Sample:	**E3YF9**	**E3YG4**
Location:	A11-TB001	A11-FB001
Collection Date/Time:	6/9/2020 08:00	6/9/2020 17:30
Units:	µg/L	µg/L
Acetone	1.7 J	

Carbon disulfide	ND	0.090 J
cis-1,2-Dichloroethene	0.29 J	
2-Butanone	ND	1.2 J
Associated field samples:	E3YG0, E3YG1 E3YG2, E3YG3, E3YG4	E3YG0, E3YG1, E3YG2, E3YG3

ND = Not Detected.

Sample Type:	Field Sample	Field Duplicate	
Sample #:	A11-MW007-200610	A11-MW007-200610-D	
CLP Sample:	**E3YG6**	**E3YG7**	
Location:	A11-MW007	A11-MW007	
Collection Date/Time:	6/10/2020 9:50	6/10/2020 9:50	RPDs
Units:	µg/L	µg/L	%
Dilution factor:	1.0	1.0	
Methylcyclohexane	2.7 J	2.6 J	3.8
Tetrachloroethene	1.0 J	0.89 J	12
Isopropylbenzene	6.5	6.5	
CLP Sample:	**E3YG6DL**	**E3YG7DL**	
Dilution factor:	100.0	100.0	
Ethylbenzene	820	810	1.2
m,p-Xylene	2600	2600	0.0

'*' – RPD value ≥ 20%.

The detection of analytes with RPDs greater than 20% in the field duplicates are qualified as estimated J. Nondetects are qualified as estimated UJ.

16. SAMPLE RESULTS

The following trace volatile samples have analyte results greater than the upper limit of calibration range. The samples were not re-analyzed at dilution because they are QC samples. Detects are qualified as estimated J.

E3YG8MS, E3YG8MSD
Methylcyclohexane, Toluene, Ethylbenzene, o-Xylene, m,p-Xylene

17. QAPP COMPLIANCE

The analytical package fulfilled the QAPP QC components requirements identified in the Southeast Rockford Groundwater Contamination QAPP.

Case No: 48947 SDG No: E3YF9

Site Name: Southeast Rockford Groundwater Contamination (IL) Laboratory: CHM

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Reviewed by: Allison C. Harvey /Techlaw-ESAT

Date: 9/3/2020

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-TB001	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 08:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	1.7	J+	ug/L	1.7	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.29	J	ug/L	0.29	J	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW006	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 11:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.44	J	ug/L	0.44	J	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5	U	ug/L	1.3	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.11	J	ug/L	0.11	J	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.28	J	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.35	J	ug/L	0.35	J	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	2.0		ug/L	2.0		1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.14	J	ug/L	0.14	J	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.14	J	ug/L	0.14	J	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Indane	TIC	0.57	JN	ug/L	0.57	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
n-Butyl ether	TIC	12	JN	ug/L	12	JN	1.0	YES	NV
Total Alkanes	TIC	1.5	BN	ug/L	1.5	BN	1.0	YES	NV
Di-sec-butyl ether	TIC	0.72	JN	ug/L	0.72	JN	1.0	YES	NV
unknown-01	TIC	2.4	J	ug/L	2.4	J	1.0	YES	NV
Pentalene, octahydro-	TIC	0.58	JN	ug/L	0.58	JN	1.0	YES	NV
Ethane, 1-chloro-1,1-difluoro-	TIC	1.7	JN	ug/L	1.7	JN	1.0	YES	NV
4-Octanone, 5-hydroxy-3,6-dimethyl	TIC	1.3	JN	ug/L	1.3	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW005	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 16:15:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	1.1		ug/L	1.1		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5	U	ug/L	0.87	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.15	J	ug/L	0.15	J	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.4		ug/L	6.4		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.45	J	ug/L	0.45	J	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	4.5		ug/L	4.5		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.89		ug/L	0.89		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.40	J	ug/L	0.40	J	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.39	J	ug/L	0.39	J	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.18	J	ug/L	0.18	J	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG1MS	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 16:15:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Spike	5.6		ug/L	5.6		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5	U	ug/L	1.1	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.16	J	ug/L	0.16	J	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.4		ug/L	6.4		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.45	J	ug/L	0.45	J	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	4.4		ug/L	4.4		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Spike	4.8		ug/L	4.8		1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Spike	5.6		ug/L	5.6		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.39	J	ug/L	0.39	J	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Spike	4.7		ug/L	4.7		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.36	J	ug/L	0.36	J	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.19	J	ug/L	0.19	J	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Spike	4.8		ug/L	4.8		1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG1MSD	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 16:15:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Spike	5.8		ug/L	5.8		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.16	J	ug/L	0.16	J	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.6		ug/L	6.6		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.48	J	ug/L	0.48	J	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	4.6		ug/L	4.6		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Spike	5.0		ug/L	5.0		1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Spike	5.7		ug/L	5.7		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.38	J	ug/L	0.38	J	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Spike	4.8		ug/L	4.8		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.39	J	ug/L	0.39	J	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.21	J	ug/L	0.21	J	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Spike	5.0	J+	ug/L	5.0		1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW001	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 08:40:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5	U	ug/L	1.1	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.17	J	ug/L	0.17	J	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	7.5		ug/L	7.5		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	8.9		ug/L	8.9		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	2.5		ug/L	2.5		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	1.0		ug/L	1.0		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethane, 1-chloro-1,1-difluoro-	TIC	0.77	JN	ug/L	0.77	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG3	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW004B	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 13:05:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.95		ug/L	0.95		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.16	J	ug/L	0.16	J	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.3		ug/L	6.3		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.5		ug/L	5.5		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	1.6		ug/L	1.6		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.40	J	ug/L	0.40	J	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-FB001	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 17:30:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5	U	ug/L	3.0	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.090	J	ug/L	0.090	J	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.19	J	1.0	YES	S4VEM
2-Butanone	Target	1.2	J	ug/L	1.2	J	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG5	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW003	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 08:05:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	1.9	J	ug/L	1.9	J	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.9		ug/L	6.9		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	1.3	J	ug/L	1.3	J	1.0	YES	S4VEM
Cyclohexane	Target	7.8		ug/L	7.8		1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	59		ug/L	59		1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	2.2	J	ug/L	2.2	J	1.0	YES	S4VEM
Toluene	Target	7.6	J	ug/L	7.6		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	430	J	ug/L	430	JD	100.0	YES	S4VEM
o-xylene	Target	5.2		ug/L	5.2		1.0	YES	S4VEM
m,p-Xylene	Target	5100		ug/L	5100	D	100.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	45		ug/L	45		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene, 4-ethyl-1,2-dimethyl-	TIC	13	JN	ug/L	13	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1,2,4,5-tetramethyl-	TIC	9.1	JN	ug/L	9.1	JN	1.0	YES	NV
Benzene, propyl-	TIC	53	JN	ug/L	53	JN	1.0	YES	NV
Benzene, 1,3-diethyl-	TIC	6.0	JN	ug/L	6.0	JN	1.0	YES	NV
p-Cymene	TIC	18	JN	ug/L	18	JN	1.0	YES	NV
Total Alkanes	TIC	120	BN	ug/L	120	BN	1.0	YES	NV
Benzene, 2-ethyl-1,4-dimethyl-	TIC	20	JN	ug/L	20	JN	1.0	YES	NV
Benzaldehyde, 2-methyl-	TIC	2.6	JN	ug/L	2.6	JN	1.0	YES	NV
Naphthalene, 1,2,3,4-tetrahydro-	TIC	18	JN	ug/L	18	JN	1.0	YES	NV
Benzene, (2-methyl-1-propenyl)-	TIC	27	JN	ug/L	27	JN	1.0	YES	NV
Benzene, 1,2,3,4-tetramethyl-	TIC	20	JN	ug/L	20	JN	1.0	YES	NV
Benzene, (1-methyl-1-butenyl)-	TIC	2.8	JN	ug/L	2.8	JN	1.0	YES	NV
Benzene, 1-methyl-4-propyl-	TIC	14	JN	ug/L	14	JN	1.0	YES	NV
Cyclohexene, 3-methyl-	TIC	3.1	JN	ug/L	3.1	JN	1.0	YES	NV
Benzene, (2-methylpropyl)-	TIC	4.5	JN	ug/L	4.5	JN	1.0	YES	NV
Benzene, 1-methyl-3-(1-methylethyl	TIC	4.2	JN	ug/L	4.2	JN	1.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	85	JN	ug/L	85	JN	1.0	YES	NV
Benzene, 1,2,4-trimethyl-	TIC	220	JN	ug/L	220	JN	1.0	YES	NV
Benzeneacetaldehyde, .alpha.-methy	TIC	15	JN	ug/L	15	JN	1.0	YES	NV
Benzene, 1-ethyl-2-methyl-	TIC	130	JN	ug/L	130	JN	1.0	YES	NV
Benzene, 1-ethyl-3-methyl-	TIC	54	JN	ug/L	54	JN	1.0	YES	NV
Benzene, 1,2-diethyl-	TIC	23	JN	ug/L	23	JN	1.0	YES	NV
Pentalene, octahydro-	TIC	6.5	JN	ug/L	6.5	JN	1.0	YES	NV
Indan, 1-methyl-	TIC	2.5	JN	ug/L	2.5	JN	1.0	YES	NV
o-Cymene	TIC	25	JN	ug/L	25	JN	1.0	YES	NV
1-Hexadecyne	TIC	2.8	JN	ug/L	2.8	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG6	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW007	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 09:50:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	2.7	J	ug/L	2.7	J	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	1.0	J	ug/L	1.0	J	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	820		ug/L	820	D	100.0	YES	S4VEM
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
m,p-Xylene	Target	2600		ug/L	2600	D	100.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	6.5		ug/L	6.5		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Mesitylene	TIC	24	JN	ug/L	24	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	11	JN	ug/L	11	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG7	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW007	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 09:50:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	2.6	J	ug/L	2.6	J	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.89	J	ug/L	0.89	J	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	810		ug/L	810	D	100.0	YES	S4VEM
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
m,p-Xylene	Target	2600		ug/L	2600	D	100.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	6.5		ug/L	6.5		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Total Alkanes	TIC	3.5	BN	ug/L	3.5	BN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1,2,4-trimethyl-	TIC	11	JN	ug/L	11	JN	1.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	23	JN	ug/L	23	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG8	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW002	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 12:10:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	4.4	J	ug/L	4.4	J	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	2.7	J	ug/L	2.7	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	11		ug/L	11		1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.4		ug/L	6.4		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	32		ug/L	32		1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	1.0	J	ug/L	1.0	J	1.0	YES	S4VEM
Cyclohexane	Target	120		ug/L	120		1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	0.86	J	ug/L	0.86	J	1.0	YES	S4VEM
Methylcyclohexane	Target	570	J	ug/L	570	JD	500.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	68000	J	ug/L	68000	D	500.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	6400		ug/L	6400	D	500.0	YES	S4VEM
o-xylene	Target	4900		ug/L	4900	D	500.0	YES	S4VEM
m,p-Xylene	Target	20000		ug/L	20000	D	500.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	98		ug/L	98		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0		ug/L	5.0		1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene, 1-ethenyl-3-ethyl-	TIC	48	JN	ug/L	48	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, tert-butyl-	TIC	2.6	JN	ug/L	2.6	JN	1.0	YES	NV
Benzene, 2-ethyl-1,4-dimethyl-	TIC	28	JN	ug/L	28	JN	1.0	YES	NV
3-Hexanol, 2,3-dimethyl-	TIC	8.8	JN	ug/L	8.8	JN	1.0	YES	NV
Benzene, 1,2,4,5-tetramethyl-	TIC	39	JN	ug/L	39	JN	1.0	YES	NV
1H-Indene, 2,3-dihydro-4-methyl-	TIC	9.3	JN	ug/L	9.3	JN	1.0	YES	NV
Naphthalene, 1,2,3,4-tetrahydro-	TIC	43	JN	ug/L	43	JN	1.0	YES	NV
Benzene, 1-methyl-3-(1-methylethyl	TIC	33	JN	ug/L	33	JN	1.0	YES	NV
Azulene	TIC	43	JN	ug/L	43	JN	1.0	YES	NV
Benzene, 2-propenyl-	TIC	54	JN	ug/L	54	JN	1.0	YES	NV
Benzene, 1-ethyl-2,3-dimethyl-	TIC	68	JN	ug/L	68	JN	1.0	YES	NV
2-Hexyne, 4-methyl-	TIC	3.6	JN	ug/L	3.6	JN	1.0	YES	NV
Benzeneacetaldehyde, .alpha.-methy	TIC	19	JN	ug/L	19	JN	1.0	YES	NV
Benzene, 1,2,4-trimethyl-	TIC	180	JN	ug/L	180	JN	1.0	YES	NV
n-Butyl ether	TIC	24	JN	ug/L	24	JN	1.0	YES	NV
Benzene, 1,2-diethyl-	TIC	10	JN	ug/L	10	JN	1.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	130	JN	ug/L	130	JN	1.0	YES	NV
o-Cymene	TIC	44	JN	ug/L	44	JN	1.0	YES	NV
Benzene, (2-methylpropyl)-	TIC	4.5	JN	ug/L	4.5	JN	1.0	YES	NV
Total Alkanes	TIC	520	BN	ug/L	520	BN	1.0	YES	NV
p-Cymene	TIC	9.7	JN	ug/L	9.7	JN	1.0	YES	NV
Benzene, propyl-	TIC	95	JN	ug/L	95	JN	1.0	YES	NV
Mesitylene	TIC	390	JN	ug/L	390	JN	1.0	YES	NV
4-Heptanone, 2,6-dimethyl-	TIC	49	JN	ug/L	49	JN	1.0	YES	NV
Benzene, 1,2,3,4-tetramethyl-	TIC	22	JN	ug/L	22	JN	1.0	YES	NV
Benzene, 1-ethyl-2-methyl-	TIC	110	JN	ug/L	110	JN	1.0	YES	NV
Benzene, 1-ethyl-3-methyl-	TIC	310	JN	ug/L	310	JN	1.0	YES	NV
Benzene, 1-methyl-4-propyl-	TIC	25	JN	ug/L	25	JN	1.0	YES	NV
Pentalene, octahydro-, cis-	TIC	16	JN	ug/L	16	JN	1.0	YES	NV
1H-Indene, octahydro-, cis-	TIC	4.9	JN	ug/L	4.9	JN	1.0	YES	NV
2-Heptanone, 4,6-dimethyl-	TIC	6.2	JN	ug/L	6.2	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG8MS	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 12:10:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	4.2	J	ug/L	4.2	J	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Spike	50		ug/L	50		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	2.8	J	ug/L	2.8	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	19		ug/L	19		1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.1		ug/L	6.1		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	30		ug/L	30		1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.97	J	ug/L	0.97	J	1.0	YES	S4VEM
Cyclohexane	Target	100		ug/L	100		1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Spike	46		ug/L	46		1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Spike	48		ug/L	48		1.0	YES	S4VEM
Methylcyclohexane	Target	590	J	ug/L	590	E	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Spike	7200	J	ug/L	7200	E	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Spike	50		ug/L	50		1.0	YES	S4VEM
Ethylbenzene	Target	2500	J	ug/L	2500	E	1.0	YES	S4VEM
o-xylene	Target	4000	J	ug/L	4000	E	1.0	YES	S4VEM
m,p-Xylene	Target	8700	J	ug/L	8700	E	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	95		ug/L	95		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	4.9	J	ug/L	4.9	J	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG8MSD	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 12:10:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	4.2	J	ug/L	4.2	J	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Spike	52		ug/L	52		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	3.0	J	ug/L	3.0	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	21		ug/L	21		1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.3		ug/L	6.3		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	32		ug/L	32		1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	1.0	J	ug/L	1.0	J	1.0	YES	S4VEM
Cyclohexane	Target	110		ug/L	110		1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Spike	47		ug/L	47		1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Spike	49		ug/L	49		1.0	YES	S4VEM
Methylcyclohexane	Target	630	J	ug/L	630	E	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Spike	7500	J	ug/L	7500	E	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Spike	52		ug/L	52		1.0	YES	S4VEM
Ethylbenzene	Target	2600	J	ug/L	2600	E	1.0	YES	S4VEM
o-xylene	Target	4300	J	ug/L	4300	E	1.0	YES	S4VEM
m,p-Xylene	Target	8900	J	ug/L	8900	E	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	98		ug/L	98		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	4.6	J	ug/L	4.6	J	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG9	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW004A	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 14:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	3.7	J	ug/L	3.7	J	1.0	YES	S4VEM
Cyclohexane	Target	0.83	J	ug/L	0.83	J	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	1.0	J	ug/L	1.0	J	1.0	YES	S4VEM
Methylcyclohexane	Target	21		ug/L	21		1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	52000		ug/L	52000	D	800.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.3		ug/L	5.3		1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	330	J	ug/L	330	JD	200.0	YES	S4VEM
o-xylene	Target	71		ug/L	71		1.0	YES	S4VEM
m,p-Xylene	Target	460	J	ug/L	460	JD	200.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	2.1	J	ug/L	2.1	J	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene, 1,2,4,5-tetramethyl-	TIC	3.5	JN	ug/L	3.5	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1,2,3-trimethyl-	TIC	9.6	JN	ug/L	9.6	JN	1.0	YES	NV
Benzene, 1-ethyl-3-methyl-	TIC	4.9	JN	ug/L	4.9	JN	1.0	YES	NV
Benzene, 1-ethyl-2-methyl-	TIC	3.1	JN	ug/L	3.1	JN	1.0	YES	NV
Total Alkanes	TIC	110	BN	ug/L	110	BN	1.0	YES	NV
Benzene, propyl-	TIC	3.6	JN	ug/L	3.6	JN	1.0	YES	NV
Mesitylene	TIC	3.3	JN	ug/L	3.3	JN	1.0	YES	NV
Benzene, 4-ethyl-1,2-dimethyl-	TIC	3.3	JN	ug/L	3.3	JN	1.0	YES	NV

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 20060290
Laboratory: STAT Analysis Corporation / Eurofins Test America

Matrix: Groundwater
Collection date: 06/09/20
Analysis/Methods:

Wet Chemistry:
Nitrogen, Nitrate EPA 300.0
Sulfate EPA 300.0
Alkalinity M2320 B
Dissolved Gases - Methane - RSK-175

Samples in SDG:

STAT Lab ID	Sample Number
20060290-001	A11-MW001-200609
20060290-002	A11-MW004B-200609
20060290-003	A11-MW005-200609
20060290-004	A11-MW006-200609

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
20060338-003BMS/BMSD	Acceptable	20%		
Sulfate				
20060338-003BMS/BMSD	Acceptable	20%		
Alkalinity				
20060290-003BMS/BMSD	Acceptable	20%		

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**No**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks		Concentration	MDL / RL	Qualifiers	Associated Samples
Nitrogen, Nitrate					
ICMBW1 061120	Nitrogen	0.052 J	0.2	None	Sample results nondetect or > RL
Sulfate					
ICMBW1 061120	Sulfate	0.377 J	4.0	None	Sample results > RL
Alkalinity					
ALKMBW1 061420		Nondetect		None	Sample results > RL

ICB/CCB		Concentration	MDL / RL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	0.058	0.2	None	Sample results nondetect or > RL
ICB	Sulfate	0.363	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.055	0.2	None	Sample results nondetect or > RL
CCB	Sulfate	0.354	4.0	None	Sample results > RL

Field Blank	Concentration	MDL / RL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
Nitrogen, Nitrate				
20060338-003BMS/BMSD	Acceptable	90-110		
Sulfate				
20060338-003BMS/BMSD	Acceptable	90-110		
Alkalinity				
20060290-003BMS/BMSD	Acceptable	75-125		

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate				
ICLCSW1 061120	Acceptable	90-110		
Sulfate				
ICLCSW1 061120	Acceptable	90-110		
Alkalinity				
ALKLCSW1 061420	Acceptable	80-120		

ICV		%R	Limits	Qualifiers	Associated Samples
6/11/2020 9:14	Nitrogen, Nitrate	73.04	90-110	**J / UJ**	**All samples**
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
6/11/2020 '11:52	Nitrogen, Nitrate	76.88	90-110	**J / UJ**	**All samples**
	Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Methane (RSK-175)

Precision:	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**		
Laboratory Control Spike Duplicates RPD within limits?	**Yes**		
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
N/A					

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
680-184999-3 MS / MSD (20060290-003)	Acceptable			

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
Methane				
LCS 680-623376/ 3 / 4	Acceptable			
LCS 680-623376/ 6 / 7	Acceptable			

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**		
Laboratory Control Sample criteria met?	**Yes**		
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?	**Yes**		
Was the CCV criteria met?	**Yes**		
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	Concentration (mg/L)	MDL /PQL	Qualifiers	Associated Samples
Methane				
MB 680-623376/ 8	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
680-184999-3 MS / MSD (20060290-003)	Acceptable			

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Methane				
LCS 680-623376/ 3 / 4	Acceptable			
LCS 680-623376/ 6 / 7	Acceptable			

ICAL	RRF	%RSD	Qualifiers	Associated Samples
2/17/2020 8:45	Acceptable	Acceptable		
3/04/2020 9:12	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
6/22/2020 15:34	Acceptable	Acceptable			
6/22/2020 15:47	Acceptable	Acceptable			
6/22/2020 18:44	Acceptable	Acceptable			
6/22/2020 18:57	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 4.6 and 2.1° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 1/8/2021

Data Reviewer: Cherie Zakowski Date: 1/12/2021

STAT Analysis Corporation
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Date Reported: July 06, 2020
Date Printed: July 06, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Quarterly GW Sampling, **Work Order:** 20060290 Revision 0

Lab ID: 20060290-001 **Collection Date:** 6/9/2020 8:40:00 AM
Client Sample ID A11-MW001-200609 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	1.8	0.20	*	mg/L	1	6/11/2020
Sulfate	25	4.0	*	mg/L	1	6/11/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	360	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00058		mg/L	1	6/22/2020

Lab ID: 20060290-002 **Collection Date:** 6/9/2020 1:05:00 PM
Client Sample ID A11-MW004B-200609 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	1.1	0.20	*	mg/L	1	6/11/2020
Sulfate	19	4.0	*	mg/L	1	6/11/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	340	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.035	0.00058		mg/L	1	6/22/2020

Lab ID: 20060290-003 **Collection Date:** 6/9/2020 4:15:00 PM
Client Sample ID A11-MW005-200609 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	2.7	0.20	*	mg/L	1	6/11/2020
Sulfate	33	4.0	*	mg/L	1	6/11/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00058		mg/L	1	6/22/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 06, 2020
Date Printed: July 06, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Quarterly GW Sampling, **Work Order:** 20060290 Revision 0

Lab ID: 20060290-004 **Collection Date:** 6/9/2020 11:00:00 AM
Client Sample ID A11-MW006-200609 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/11/2020
Sulfate	7.1	4.0	*	mg/L	1	6/11/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	460	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	3.8	0.39		mg/L	1	6/22/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 20060338

Laboratory: STAT Analysis Corporation / Eurofins Test America

Matrix: Groundwater
Collection date: 06/10/20
Analysis/Methods:

Wet Chemistry:
Anions 300.0
Alkalinity M2320 B
Dissolved Gases - Methane - RSK-175

Samples in SDG:

STAT Lab ID	Sample Number
20060338-001	A11-MW002-200610
20060338-002	A11-MW003-200610
20060338-003	A11-MW004A-200610
20060338-004	A11-MW007-200610
20060338-005	A11-MW007-200610-D

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters

Precision:	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
	A11-MW007-200610	A11-MW007-200610-D	Acceptable		

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
Nitrogen, Nitrate				
20060338-003BMS/BMSD	Acceptable	20%		
Sulfate				
20060338-003BMS/BMSD	Acceptable	20%		
Alkalinity				
20060290-003BMS/BMSD	Acceptable	20%		

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**No**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks		Concentration	MDL / RL	Qualifiers	Associated Samples
Nitrogen, Nitrate					
ICMBW1 061120	Nitrogen	0.052 J	0.2		Sample results nondetect or > RL
Sulfate					
ICMBW1 061120	Sulfate	0.377 J	4.0	None	Sample results nondetect or > RL
Alkalinity					
ALKMBW1 061420		Nondetect			Sample results > RL

ICB/CCB		Concentration	MDL / RL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	0.058	0.2	None	Sample results nondetect or > RL
ICB	Sulfate	0.363	4.0	None	
CCB	Nitrogen, Nitrate	0.072	0.2	None	Sample results nondetect or > RL
CCB	Sulfate	0.358	4.0	None	
CCB	Nitrogen, Nitrate	0.076	0.2	None	Sample results nondetect or > RL
CCB	Sulfate	0.361	4.0	None	

Field Blank	Concentration	MDL / RL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
Nitrogen, Nitrate				
20060338-003BMS/BMSD	Acceptable	90-110		
Sulfate				
20060338-003BMS/BMSD	Acceptable	90-110		
Alkalinity				
20060290-003BMS/BMSD	Acceptable	75-125		

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate				
ICLCSW1 061120	Acceptable	90-110		
Sulfate				
ICLCSW1 061120	Acceptable	90-110		
Alkalinity				
ALKLCSW1 061420	Acceptable	80-120		

ICV		%R	Limits	Qualifiers	Associated Samples
6/11/2020 9:14	Nitrogen, Nitrate	73.04	90-110	**J / UJ**	**All samples**
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
6/12/2020 '2:31	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			
6/12/2020 '5:09	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Methane (RSK-175)

Precision:	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**Yes**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-200610	A11-MW007-200610-D	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
Methane				
LCS 680-623522/ 3 / 4	Acceptable			
LCS 680-623522/ 6 / 7	Acceptable			

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**N/A**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration (mg/L)**	**MDL /RL**	**Qualifiers**	**Associated Samples**
Methane				
MB 680-623522/ 8	Nondetect			

Field Blank	**Concentration**	**MDL /RL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%R**	**Limits**	**Qualifiers**	**Associated Samples**
Methane				
LCS 680-623522/ 3 / 4	Acceptable			
LCS 680-623522/ 6 / 7	Acceptable			

ICAL	**RRF**	**%RSD**	**Qualifiers**	**Associated Samples**
2/17/2020 8:45	Acceptable	Acceptable		
3/04/2020 9:12	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
6/23/2020 13:44	Acceptable	Acceptable			
6/23/2020 14:35	Acceptable	Acceptable			
6/23/2020 17:25	Acceptable	Acceptable			
6/23/2020 17:38	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 2.5 and 5.2° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 1/6/2021

Data Reviewer: Cherie Zakowski Date: 1/8/2021

STAT Analysis Corporation
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Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: July 06, 2020
Date Printed: July 06, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Quarterly GW Sampling, **Work Order:** 20060338 Revision 0

Lab ID: 20060338-001 **Collection Date:** 6/10/2020 12:10:00 PM
Client Sample ID A11-MW002-200610 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/12/2020
Sulfate	ND	4.0	*	mg/L	1	6/12/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	400	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	19	0.39		mg/L	1	6/23/2020

Lab ID: 20060338-002 **Collection Date:** 6/10/2020 8:05:00 AM
Client Sample ID A11-MW003-200610 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/12/2020
Sulfate	9.0	4.0	*	mg/L	1	6/12/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	380	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	6.7	0.39		mg/L	1	6/23/2020

Lab ID: 20060338-003 **Collection Date:** 6/10/2020 2:25:00 PM
Client Sample ID A11-MW004A-200610 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	0.65	0.20	*	mg/L	1	6/12/2020
Sulfate	35	4.0	*	mg/L	1	6/12/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	350	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.19	0.00058		mg/L	1	6/23/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: July 06, 2020
Date Printed: July 06, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Quarterly GW Sampling, **Work Order:** 20060338 Revision 0

Lab ID: 20060338-004 **Collection Date:** 6/10/2020 9:50:00 AM
Client Sample ID A11-MW007-200610 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/12/2020
Sulfate	29	4.0	*	mg/L	1	6/12/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	3.8	0.39		mg/L	1	6/23/2020

Lab ID: 20060338-005 **Collection Date:** 6/10/2020 9:50:00 AM
Client Sample ID A11-MW007-200610-D **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/12/2020
Sulfate	28	4.0	*	mg/L	1	6/12/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	360	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	3.9	0.39		mg/L	1	6/23/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

September 2020 Data Validation Reports and Data Packages

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2009006__ 2009007
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 9/9/2020 & 9/10/2020
Analysis/Methods:
Wet Chemistry:
Alkalinity M2320 B

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2009006-08	A11-FB001-200909	2009007-01	A11-MW002-200910
2009006-09	A11-MW001-200909	2009007-02	A11-MW007-200910
2009006-10	A11-MW004B-200909	2009007-03	A11-MW004A-200910
2009006-11	A11-MW006-200909	2009007-04	A11-MW007-200910-D
2009006-12	A11-MW005-200909	2009007-05	A11-MW003-200910-D
2009006-13	A11-MW130A-200909		

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Alkalinity 2320B)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-200910	**A11-MW007-200910-D**	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
B20I015-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**N/A**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**Yes**
Was the ICAL criteria met?			**N/A**
Was the CCV criteria met?			**N/A**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
B20I015-BLK1	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-200909	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
N/A				

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
B20I015-SRM1	Acceptable			

ICV	%R	Limits	Qualifiers	Associated Samples
N/A				

CCV	%R	Limits	Qualifiers	Associated Samples
N/A				

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 1.1 and 3.8° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable as reported.

Data Validator: Kristine Molloy Date: 1/22/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-19-20 10:41

Alkalinity by SM 2320B
US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200909 (2009006-08) **Matrix: Water** **Sampled: Sep-09-20 18:00** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**U**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW001-200909 (2009006-09) **Matrix: Water** **Sampled: Sep-09-20 16:25** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**340**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW004B-200909 (2009006-10) **Matrix: Water** **Sampled: Sep-09-20 16:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**340**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW006-200909 (2009006-11) **Matrix: Water** **Sampled: Sep-09-20 11:45** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**440**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW005-200909 (2009006-12) **Matrix: Water** **Sampled: Sep-09-20 13:40** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**370**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW130A-200909 (2009006-13) **Matrix: Water** **Sampled: Sep-09-20 09:55** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**330**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW002-200910 (2009007-01) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**420**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW007-200910 (2009007-02) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**530**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-19-20 10:41

Alkalinity by SM 2320B

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200910 (2009007-03) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**340**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW007-200910-D (2009007-04) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**530**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW003-200910-D (2009007-05) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**370**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-19-20 10:41

Notes and Definitions

*	This Quality Control measure meets the requirements of the CRL SOP for this analyte.
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 680-188662
Laboratory: Eurofins Test America

Matrix: Groundwater
Collection date: 09/09/2020 & 09/10/2020
Analysis/Methods:

Dissolved Gases - Methane - RSK-175

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
680-188662-1	A11-MW006-200909	680-188662-7	A11-MW003-200910
680-188662-2	A11-MW130A-200909	680-188662-8	A11-MW007-200910
680-188662-3	A11-MW005-200909	680-188662-9	A11-MW007-200910-D
680-188662-4	A11-MW001-200909	680-188662-10	A11-MW002-200910
680-188662-5	A11-MW004B-200909	680-188662-11	A11-MW004A-200910
680-188662-6	A11-FB01-200909	680-188662-12	A11-TB001-200909

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Methane (RSK-175)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?	**Yes**		
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?	**Yes**		
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-200910	**A11-MW007-200910-D**	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
LCS 680-635562/ 3 / 4	Acceptable			
LCS 680-635562/ 6 / 7	Acceptable			

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**		
Laboratory Control Sample criteria met?	**Yes**		
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?		**No**	
Was the ICAL criteria met?	**Yes**		
Was the CCV criteria met?	**Yes**		
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
MB 680-635562/ 8	Nondetect			

Field Blank		Concentration	MDL /PQL	Qualifiers	Associated Samples
A11-FB01-200909	Methane	0.62	0.29 / 0.58	U-RL	680-188662-2
A11-TB001-200909	Methane	0.64	0.29 / 0.58	U-RL	680-188662-2

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
N/A				

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
LCS 680-635562/ 3 / 4	Acceptable			
LCS 680-635562/ 6 / 7	Acceptable			

ICAL	RRF	%RSD	Qualifiers	Associated Samples
2/17/2020 8:45	Acceptable	Acceptable		
3/04/2020 9:12	Acceptable	Acceptable		

ICV / CCV	RRF	%D	Limits	Qualifiers	Associated Samples
ICV					
3/04/2020 11:29	Acceptable	Acceptable			
CCV					
09/23/2020 10:40	Acceptable	Acceptable			
09/23/2020 11:19	Acceptable	Acceptable			
09/23/2020 15:15	Acceptable	Acceptable			
09/23/2020 15:28	Acceptable	Acceptable			
09/23/2020 17:19	Acceptable	Acceptable			
09/23/2020 17:32	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)		No	
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was 17.9° C.

Preservation		Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Methane	17.9	0 - 6 ° C	J /UJ	All samples

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	**Yes**	**No**	**N/A**
Are MDLs present and reported?	**Yes**		
Do the reporting limits meet project requirements?	**Yes**		

Comments (note deviations):

Comment:

As noted by the laboratory, samples were received properly preserved on ice and in good condition, however, water was present in the cooler, indicating melted ice.

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 1/22/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Detection Summary

Client: CDM Smith, Inc.
Job ID: 680-188662-1
Project/Site: Methane Analysis - SE Rockford Area 11

Client Sample ID: A11-MW006-200909 — Lab Sample ID: 680-188662-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	4100		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW130A-200909 — Lab Sample ID: 680-188662-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.57	J	0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW005-200909 — Lab Sample ID: 680-188662-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.94		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW001-200909 — Lab Sample ID: 680-188662-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.82		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW004B-200909 — Lab Sample ID: 680-188662-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	27		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-FB01-200909 — Lab Sample ID: 680-188662-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.62		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW003-200910 — Lab Sample ID: 680-188662-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	3500		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW007-200910 — Lab Sample ID: 680-188662-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	25000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW007-200910-D — Lab Sample ID: 680-188662-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	21000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW002-200910 — Lab Sample ID: 680-188662-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	26000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW004A-200910 — Lab Sample ID: 680-188662-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	160		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-TB001-200909 — Lab Sample ID: 680-188662-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.64		0.58	0.29	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: A11-MW006-200909 — Lab Sample ID: 680-188662-1

Date Collected: 09/09/20 11:45 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	4100		390	39	ug/L			09/23/20 13:06	1

Client Sample ID: A11-MW130A-200909 — Lab Sample ID: 680-188662-2

Date Collected: 09/09/20 09:55 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.57	J	0.58	0.29	ug/L			09/23/20 13:19	1

Client Sample ID: A11-MW005-200909 — Lab Sample ID: 680-188662-3

Date Collected: 09/09/20 13:40 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.94		0.58	0.29	ug/L			09/23/20 13:32	1

Client Sample ID: A11-MW001-200909 — Lab Sample ID: 680-188662-4

Date Collected: 09/09/20 16:25 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.82		0.58	0.29	ug/L			09/23/20 13:45	1

Client Sample ID: A11-MW004B-200909 — Lab Sample ID: 680-188662-5

Date Collected: 09/09/20 16:30 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	27		0.58	0.29	ug/L			09/23/20 13:58	1

Client Sample ID: A11-FB01-200909 — Lab Sample ID: 680-188662-6

Date Collected: 09/09/20 18:00 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.62		0.58	0.29	ug/L			09/23/20 14:11	1

Client Sample ID: A11-MW003-200910 — Lab Sample ID: 680-188662-7

Date Collected: 09/10/20 08:45 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	3500		390	39	ug/L			09/23/20 16:01	1

Client Sample ID: A11-MW007-200910 — Lab Sample ID: 680-188662-8

Date Collected: 09/10/20 10:55 **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	25000		390	39	ug/L			09/23/20 14:24	1

Client Sample ID: A11-MW007-200910-D — Lab Sample ID: 680-188662-9

Date Collected: 09/10/20 10:55 **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	21000		390	39	ug/L			09/23/20 14:37	1

Client Sample ID: A11-MW002-200910 — Lab Sample ID: 680-188662-10

Date Collected: 09/10/20 13:05 **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	26000		390	39	ug/L			09/23/20 14:49	1

Client Sample ID: A11-MW004A-200910 — Lab Sample ID: 680-188662-11

Date Collected: 09/10/20 15:50 **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	160		0.58	0.29	ug/L			09/23/20 15:02	1

Client Sample ID: A11-TB001-200909 — Lab Sample ID: 680-188662-12

Date Collected: 09/09/20 08:00 **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.64		0.58	0.29	ug/L			09/23/20 15:48	1

Default Detection Limits

Client: CDM Smith, Inc.
Job ID: 680-188662-1
Project/Site: Methane Analysis - SE Rockford Area 11

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units
Methane	0.58	0.29	ug/L
Methane (TCD)	390	39	ug/L

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: E200903
Laboratory: ESAT / Tech Law

Matrix: Groundwater
Collection date: 09/09/2020 & 09/10/2020
Analysis/Methods:

1,4-Dioxane - SW-846 8000D SIM

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
E200901-01	A11-FB001-200909	E200902-01	A11-MW004A-200910
E200901-02	A11-MW001-200909	E200902-02	A11-MW007-200910-D
E200901-03	A11-MW004B-200909	E200902-03	A11-MW007-200910
E200901-04	A11-MW005-200909	E200902-04	A11-MW003-200910
E200901-05	A11-MW006-200909	E200902-05	A11-TB002-200910
E200901-06	A11-MW130A-200909	E200902-06	A11-MW002-200910
E200901-07	A11-TB001-200909		

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260 / 1,4-Dioxane 8000D

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**Yes**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample A11-MW007-200910**	**Duplicate A11-MW007-200910-D**	**%RPD**	**Qualifiers**	**Associated Samples**
1,4-Dioxane	ND	ND			

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
E20I001-MS1 / MSD1 (E200901-04)	Acceptable			

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
E20I001-BS1 / BSD1	Acceptable			

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**No**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**Yes**
Were the Surrogate % recoveries within laboratory determined control limits?			**Yes**
Were the Internal Standard areas within ± 50 - 150%?			**Yes**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20I001-BLK1	Nondetect			

Field Blank	Analyte	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-200909	1,4-Dioxane	7.81	0.207	None	Sample results nondetect or > RL
A11-TB001-200909		Nondetect			
A11-TB002-200910		Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
	Acceptable			

MS/MSD		%R	Limits (%)	Qualifiers	Associated Samples
E20I001-MS1 / MSD1					
(E200901-04)	1,4-Dioxane	125 / 134	64-112	J	**E200901-04**

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20I001-BS1 / BSD1	Acceptable			

ICAL	RRF	%RSD	Limits	Qualifiers	Associated Samples
May 27, 2020	Acceptable	Acceptable			

ICV / CCV	RRF	%D	Limits	Qualifiers	Associated Samples
ICV					
5/27/2020 1:00	Acceptable	Acceptable			
CCV					
9/21/2020 11:50	Acceptable	Acceptable			
9/21/2020 20:35	Acceptable	Acceptable			

Tune
Acceptable

MRL Check	%R	Limits	Qualifiers	Associated Samples
E20I001-MRL1	Acceptable			

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
		Acceptable		

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 1.1 & 0.9 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	**Yes No N/A**
Are all data in this SDG usable?	**Yes**
Comments (note deviations):	

Sensitivity:	**Yes No N/A**
Are MDLs present and reported?	**Yes**
Do the reporting limits meet project requirements?	**Yes**
Comments (note deviations):	

Comment:

Data is usable with appropriate qualifiers applied.

Data Validator: *Kristine Molloy* Date: *5/1/2021*

Data Reviewer: Cherie Zakowski Date: 5/5/2021

TechLaw Inc ESAT Region 5
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(312) 353-8303
(312) 353-5814 (Fax)
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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Michelle Kerr	Oct-14-20 10:13

1,4-Dioxane by GC-MS
TechLaw - ESAT Contract

A11-FB001-200909 (E200901-01) **Matrix: Water** **Sampled: Sep-09-20 18:00** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**7.81**			0.207	ug/L	1	E20I001	Sep-18-20	Sep-21-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.845			*81.8%*		*64-109*	"	"	"

A11-MW001-200909 (E200901-02) **Matrix: Water** **Sampled: Sep-09-20 16:25** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.205	ug/L	1	E20I001	Sep-18-20	Sep-21-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.839			*81.9%*		*64-109*	"	"	"

A11-MW004B-200909 (E200901-03) **Matrix: Water** **Sampled: Sep-09-20 16:30** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**7.86**			0.207	ug/L	1	E20I001	Sep-18-20	Sep-21-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.779			*75.4%*		*64-109*	"	"	"

A11-MW005-200909 (E200901-04) **Matrix: Water** **Sampled: Sep-09-20 13:40** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**8.18**			0.205	ug/L	1	E20I001	Sep-18-20	Sep-21-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.801			*78.2%*		*64-109*	"	"	"

A11-MW006-200909 (E200901-05) **Matrix: Water** **Sampled: Sep-09-20 11:45** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**8.42**			0.203	ug/L	1	E20I001	Sep-18-20	Sep-21-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.841			*82.7%*		*64-109*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Michelle Kerr	Oct-14-20 10:13

1,4-Dioxane by GC-MS

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A11-MW130A-200909 (E200901-06) **Matrix: Water** **Sampled: Sep-09-20 09:55** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**6.10**			0.205	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.824	*80.4%*	*64-109*	"	"	"

A11-TB001-200909 (E200901-07) **Matrix: Water** **Sampled: Sep-09-20 07:30** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.208	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.964	*92.6%*	*64-109*	"	"	"

A11-MW004A-200910 (E200902-01) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**1.09**			0.203	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.737	*72.5%*	*64-109*	"	"	"

A11-MW007-200910-D (E200902-02) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.203	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.935	*92.0%*	*64-109*	"	"	"

A11-MW007-200910 (E200902-03) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.212	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.860	*81.2%*	*64-109*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Michelle Kerr	Oct-14-20 10:13

1,4-Dioxane by GC-MS

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A11-MW003-200910 (E200902-04) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**7.23**			0.205	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.884	*86.3%*	*64-109*	"	"	"

A11-TB002-200910 (E200902-05) **Matrix: Water** **Sampled: Sep-10-20 08:00** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.203	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.941	*92.6%*	*64-109*	"	"	"

A11-MW002-200910 (E200902-06) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**2.90**			0.214	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.991	*92.7%*	*64-109*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Michelle Kerr	Oct-14-20 10:13

1,4-Dioxane by GC-MS - Quality Control
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Batch E20I001 - EPA 522

Blank (E20I001-BLK1) — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**U**			0.200	ug/L						
Surrogate: 1,4-Dioxane-d8	*0.796*				"	*1.00*		*79.6%*	*64-109*		

LCS (E20I001-BS1) — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.799**			0.200	ug/L	1.00		79.9%	70-106		
Surrogate: 1,4-Dioxane-d8	*0.814*				"	*1.00*		*81.4%*	*64-109*		

LCS Dup (E20I001-BSD1) — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.794**			0.200	ug/L	1.00		79.4%	70-106	0.552	17
Surrogate: 1,4-Dioxane-d8	*0.807*				"	*1.00*		*80.7%*	*64-109*		

MRL Check (E20I001-MRL1) — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.132**	J		0.200	ug/L	0.200		66.2%	49-131		
Surrogate: 1,4-Dioxane-d8	*0.796*				"	*1.00*		*79.6%*	*64-109*		

Matrix Spike (E20I001-MS1) — Source: E200901-04 — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**9.45**	Q		0.203	ug/L	1.02	8.18	125%	64-112		
Surrogate: 1,4-Dioxane-d8	*0.862*				"	*1.02*		*84.8%*	*64-109*		

Matrix Spike Dup (E20I001-MSD1) — Source: E200901-04 — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**9.55**	Q		0.205	ug/L	1.02	8.18	134%	64-112	6.72	12
Surrogate: 1,4-Dioxane-d8	*0.895*				"	*1.02*		*87.4%*	*64-109*		

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Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager:	Michelle Kerr	Oct-14-20 10:13

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2009006
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 09/09/20
Analysis/Methods:

Wet Chemistry:
Anions - EPA 300.0

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2009006-08	A11-FB001-200909	2009006-11	A11-MW006-200909
2009006-09	A11-MW001-200909	2009006-12	A11-MW005-200909
2009006-10	A11-MW004B-200909	2009006-13	A11-MW130A-200909

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Anions 300.0)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
E20I011-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)		**No**	
Laboratory Control Sample criteria met?	**Yes**		
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?	**Yes**		
Was the ICAL criteria met?	**Yes**		
Was the CCV criteria met?	**Yes**		
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20I011-BLK1				
Nitrogen, Nitrate	Nondetect			
Sulfate	Nondetect			

ICB/CCB		Concentration	MDL / PQL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.04	0.1 / 0.12	None	Sample results > RL
CCB	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.04	0.1 / 0.12	None	Sample results > RL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-200909	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20I011-MS1				
Nitrogen, Nitrate	Acceptable	80-120		
Sulfate	69	80-120	**J- / UJ**	**All samples**

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20I011-BS1				
Nitrogen, Nitrate	Acceptable	90-110		
Sulfate	Acceptable	90-110		

ICV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20I011-MRL1				
Nitrogen, Nitrate	Acceptable			
Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	**Yes**		
Were holding times met?	**Yes**		
Was preservation criteria met? (0° C - 6° C)	**Yes**		
Were Chain-of-Custody records complete and provided in data package?	**Yes**		

Comments (note deviations): The cooler temperatures were 1.1 and 3.8 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability: **Yes No N/A**

Were analytical procedures and methods followed as defined in the QAPP or field change documentation? **Yes**

Comments (note deviations):

Completeness (90%): **Yes No N/A**

Are all data in this SDG usable? **Yes**

Comments (note deviations):

Sensitivity: **Yes No N/A**

Are MDLs present and reported? **Yes**

Do the reporting limits meet project requirements? **Yes**

Comments (note deviations):

Comment:

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 1/20/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Nov-09-20 14:18

Anions by Ion Chromatography, EPA 300.0 (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200909 (2009006-08) **Matrix: Water** **Sampled: Sep-09-20 18:00** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**U**			0.12	mg/L	1	B20I011	Sep-10-20	Sep-11-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW001-200909 (2009006-09) **Matrix: Water** **Sampled: Sep-09-20 16:25** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**28.9**			0.12	mg/L	1	B20I011	Sep-10-20	Sep-10-20
Nitrate - NO3	**11.3**			0.12	"	"	"	"	"

A11-MW004B-200909 (2009006-10) **Matrix: Water** **Sampled: Sep-09-20 16:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**18.8**			0.12	mg/L	1	B20I011	Sep-10-20	Sep-10-20
Nitrate - NO3	**5.20**			0.12	"	"	"	"	"

A11-MW006-200909 (2009006-11) **Matrix: Water** **Sampled: Sep-09-20 11:45** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**5.02**			0.12	mg/L	1	B20I011	Sep-10-20	Sep-10-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW005-200909 (2009006-12) **Matrix: Water** **Sampled: Sep-09-20 13:40** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**25.2**	(MS), L		0.12	mg/L	1	B20I011	Sep-10-20	Sep-10-20
Nitrate - NO3	**9.53**			0.12	"	"	"	"	"

A11-MW130A-200909 (2009006-13) **Matrix: Water** **Sampled: Sep-09-20 09:55** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**17.5**			0.12	mg/L	1	B20I011	Sep-10-20	Sep-10-20
Nitrate - NO3	**5.91**			0.12	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Nov-09-20 14:18

Notes and Definitions

L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
(MS)	Matrix spike recovery criteria not met for this analyte
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2009006 / 2009007
Laboratory: ESAT

Matrix: Groundwater
Collection date: 09/09/2020 & 09/10/2020
Analysis/Methods:

Volatile Organic Compounds (VOCs) 8260

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2009006-01	A11-TB001-200909	2009007-06	A11-MW007-200910
2009006-02	A11-MW004B-200909	2009007-07	A11-TB002-200910
2009006-03	A11-MW005-200909	2009007-08	A11-MW007-200910-D
2009006-04	A11-MW006-200909	2009007-09	A11-MW002-200910
2009006-05	A11-MW130A-200909	2009007-10	A11-MW004A-200910
2009006-06	A11-MW001-200909	2009007-11	A11-MW003-200910
2009006-07	A11-FB001-200909		

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**No**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-200910	**A11-MW007-200910-D**	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
B20I010-MS1 / MSD1 (2009006-03RE1)	Acceptable			

LCS/LCSD		**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
B20I010-BS1 / BSD1		Acceptable			
B20I012-BS1/ BSD1	2,2-Dichloropropane	40.1	20	**J****	**2009006-02RE1, 2009006-04RE1 through 2009006-06RE1, 2009007-06 through 2009007-08**
	Toluene	27.5	20	**J****	
B20I014-BS1 / BSD1	2,2-Dichloropropane	68.6	20	**J****	**2009007-06RE1, 2009007-09RE1 through 2009007-11RE1, 2009007-10RE2 through 2009007-11RE2**

**Qualification required for detected results only - associated results nondetect - no qualification required

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**		
Laboratory Control Sample criteria met?		**No**	
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?	**Yes**		
Was the ICAL criteria met?		**No**	
Was the CCV criteria met?		**No**	
Was the Tuning criteria met?	**Yes**		
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**		
Were the Internal Standard areas within ± 50 - 150%?	**Yes**		

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
B20I010-BLK1	Nondetect			
B20I010-BLK2	Nondetect			
B20I012-BLK1	Nondetect			
B20I014-BLK1	Nondetect			

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
A11-TB001-200909	Nondetect			
A11-FB001-200909	Nondetect			
A11-TB002-200910	Nondetect			

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
	Acceptable			

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
B20I010-MS1 / MSD1 (2009006-03RE1)	Acceptable			

LCS/LCSD		**%R**	**Limits**	**Qualifiers**	**Associated Samples**
B20I010-BS1 / BSD1		Acceptable			
B20I012-BS1/ BSD1	Toluene	100 / 132	70-130	**J****	**2009006-02RE1, 2009006-04RE1 through 2009006-06RE1, 2009007-06 through 2009007-08**
B20I014-BS1 / BSD1	Dichlorodifluoromethane	59.9 / 60.1	70-130	**J / UJ**	**2009007-06RE1, 2009007-09RE1 through 2009007-11RE1, 2009007-10RE2 through 2009007-11RE2**
	2,2-Dichloropropane	99 / 48.5	70-130	**J / UJ**	
B20I014-BS2	Dichlorodifluoromethane	64.8	70-130	**J / UJ**	**2009007-08RE1, 2009007-09RE2**
	2,2-Dichloropropane	64.8	70-130	**J / UJ**	

**Qualification required for detected results only - associated results nondetect - no qualification required

ICAL		**RRF**	**%RSD**	**Limits**	**Qualifiers**	**Associated Samples**
9/10/2020	Dichlorodifluoromethane	Acceptable	33.61	25	**J****	**All samples**
	Vinyl Chloride	Acceptable	21.97	20	**J****	**All samples**
	1,1-Dichloroethene	Acceptable	21.3	20	**J****	**All samples**
	1,1,1-Trichloroethane	Acceptable	20.64	20	**J**	**All samples**
	Carbon Tetrachloride	Acceptable	26.3	20	**J****	**All samples**
	Tetrachloroethene	Acceptable	20.48	20	**J****	**All samples**
	2-Hexanone	Acceptable	48.57	40	**J****	**All samples**

**Qualification required for detected results only - associated results nondetect - no qualification required

ICV / CCV		RRF	%D	Limits	Qualifiers	Associated Samples
ICV						
9/10/2020 2:17		Acceptable	Acceptable			
CCV						
9/10/2020 1:49	Vinyl Chloride	Acceptable	43.7	25	J / UJ	2009006-01, 2009006-07, 2009006-03RE1
	Chloroethane	Acceptable	32.8	25	J / UJ	
	1,1-Dichloroethene	Acceptable	26.9	20	J / UJ	
	trans-1,2-Dichloroethene	Acceptable	25.7	20	J / UJ	
	1,1,1-Trichloroethane	Acceptable	43.5	25	J / UJ	
	Trichloroethene	Acceptable	25.1	20	J / UJ	
	Tetrachloroethene	Acceptable	30.7	20	J / UJ	
	Isopropylbenzene	Acceptable	25.1	25	J / UJ	2009006-01, 2009006-07, 2009006-03RE1
	1,2-Dibromo-3-chloropropane	Acceptable	58,5	30	J / UJ	
9/10/2020 8:38		Acceptable	Acceptable			
9/11/2020 9:55		Acceptable	Acceptable			
9/11/2020 7:06	Toluene	Acceptable	32.1	25	J / UJ	2009006-02RE1, 2009006-04RE1 through 2009006-06RE1, 2009007-06 through 2009007-08
9/15/2020 11:03	Dichlorodifluoromethane	Acceptable	40.1	40	J / UJ	2009007-06RE1, 2009007-09RE1 through 2009007-11RE1, 2009007-11RE2, 2009007-10RE2
9/15/2020 11:59		Acceptable	Acceptable			
9/16/2020 8:33	trans-1,3-Dichloropropene	Acceptable	21	20	J / UJ	2009007-08RE1, 2009007-09RE2

Tune
Acceptable

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20I010-MRL1	Acceptable			

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
		Acceptable		

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 1.1 & 3.8 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	**Yes**	**No**	**N/A**
Are MDLs present and reported?	**Yes**		
Do the reporting limits meet project requirements?	**Yes**		

Comments (note deviations):

Comment:

As stated in the case narrative, all field samples were run at a 50x screening dilution and subsequent dilutions followed. Analytes are reported from the lowest sample dilution in which they were detected within the calibration range and reporting limits are raised accordingly.

As stated in the case narrative, as a result of the high concentrations of toluene, ethylbenzene, and m+p-xylene present in numerous field samples, carryover occurred in several instances in the project

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 1/21/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-200909 (2009006-01) **Matrix: Water** **Sampled: Sep-09-20 07:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-200909 (2009006-01) **Matrix: Water** **Sampled: Sep-09-20 07:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chlorobenzene	**U**			2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.76	*97.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.97	*98.9%*	*84-122*	"	"	"
Toluene-d8	9.68	*96.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.66	*96.6%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-200909 (2009006-02RE1) **Matrix: Water** **Sampled: Sep-09-20 16:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**5.34**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**4.93**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-200909 (2009006-02RE1) **Matrix: Water** **Sampled: Sep-09-20 16:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.96	*99.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*100%*	*84-122*	"	"	"
Toluene-d8	9.85	*98.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.74	*97.4%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-200909 (2009006-03RE1) **Matrix: Water** **Sampled: Sep-09-20 13:40** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**9.11**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**5.56**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-200909 (2009006-03RE1) **Matrix: Water** **Sampled: Sep-09-20 13:40** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*102%*	*84-122*	"	"	"
Toluene-d8	9.66	*96.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.72	*97.2%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-200909 (2009006-04RE1) **Matrix: Water** **Sampled: Sep-09-20 11:45** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**2.28**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-200909 (2009006-04RE1) **Matrix: Water** **Sampled: Sep-09-20 11:45** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.3	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.98	*99.0%*	*84-122*	"	"	"
Toluene-d8	9.77	*97.7%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.66	*96.6%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-200909 (2009006-05RE1) **Matrix: Water** **Sampled: Sep-09-20 09:55** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**4.11**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**3.51**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-200909 (2009006-05RE1) **Matrix: Water** **Sampled: Sep-09-20 09:55** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.79	*97.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.94	*89.4%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-200909 (2009006-06RE1) **Matrix: Water** **Sampled: Sep-09-20 16:25** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**5.16**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**7.58**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**2.41**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-200909 (2009006-06RE1) **Matrix: Water** **Sampled: Sep-09-20 16:25** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.77	*97.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.65	*96.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.70	*97.0%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200909 (2009006-07) **Matrix: Water** **Sampled: Sep-09-20 18:00** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200909 (2009006-07) **Matrix: Water** **Sampled: Sep-09-20 18:00** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.97	*98.9%*	*84-122*	"	"	"
Toluene-d8	9.90	*99.0%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.50	*95.0%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200910 (2009007-06) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**2630**			100	ug/L	50	B20I012	Sep-11-20	Sep-11-20
m+p-Xylene	**7600**			200	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.60	*95.4%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.50	*95.0%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.92	*99.2%*	*84-108*	"	"	"

A11-MW007-200910 (2009007-06RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), (LCS), J		10.0	ug/L	5	B20I014	Sep-15-20	Sep-15-20
Chloromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
2-Butanone	**U**			62.5	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200910 (2009007-06RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dibromomethane	**U**			10.0	ug/L	5	B20I014	Sep-15-20	Sep-15-20
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**86.1**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**82.4**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**11.1**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**53.5**			10.0	"	"	"	"	"
sec-Butylbenzene	**10.8**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**11.3**			10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**11.4**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200910 (2009007-06RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,3-Trichlorobenzene	**U**			10.0	ug/L	5	B20I014	Sep-15-20	Sep-15-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.74	*96.8%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.50	*95.0%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.94	*99.4%*	*84-108*	"	"	"

A11-TB002-200910 (2009007-07) **Matrix: Water** **Sampled: Sep-10-20 08:00** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-200910 (2009007-07) **Matrix: Water** **Sampled: Sep-10-20 08:00** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,3-Dichloropropene	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-200910 (2009007-07) **Matrix: Water** **Sampled: Sep-10-20 08:00** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,3-Trichlorobenzene	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.70	*96.4%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.62	*96.2%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.55	*95.5%*	*84-108*	"	"	"

A11-MW007-200910-D (2009007-08) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**2680**			100	ug/L	50	B20I012	Sep-11-20	Sep-11-20
m+p-Xylene	**7920**			200	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.92	*98.6%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.93	*98.5%*	*84-122*	"	"	"
Toluene-d8	9.75	*97.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.79	*97.9%*	*84-108*	"	"	"

A11-MW007-200910-D (2009007-08RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), (LCS), J		10.0	ug/L	5	B20I014	Sep-15-20	Sep-16-20
Chloromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200910-D (2009007-08RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,2-Dichloroethene	**U**			10.0	ug/L	5	B20I014	Sep-15-20	Sep-16-20
2-Butanone	**U**			62.5	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**89.1**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**84.7**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**11.6**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200910-D (2009007-08RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,4-Trimethylbenzene	**55.7**			10.0	ug/L	5	B20I014	Sep-15-20	Sep-16-20
sec-Butylbenzene	**11.3**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**12.4**			10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**13.2**			10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.84	*97.8%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.3	*102%*	*84-122*	"	"	"
Toluene-d8	9.49	*94.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.0	*100%*	*84-108*	"	"	"

A11-MW002-200910 (2009007-09RE1) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**39300**			1600	ug/L	800	B20I014	Sep-15-20	Sep-15-20
Ethylbenzene	**8260**			1600	"	"	"	"	"
m+p-Xylene	**26000**			3200	"	"	"	"	"
o-Xylene	**6820**			1600	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.62	*95.6%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.94	*98.6%*	*84-122*	"	"	"
Toluene-d8	9.49	*94.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.48	*94.8%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200910 (2009007-09RE2) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), (LCS), J		50.0	ug/L	25	B20I014	Sep-15-20	Sep-16-20
Chloromethane	**U**	(ICAL), J		50.0	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		50.0	"	"	"	"	"
Bromomethane	**U**			50.0	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		50.0	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		50.0	"	"	"	"	"
1,1-Dichloroethene	**U**			50.0	"	"	"	"	"
Acetone	**U**			312	"	"	"	"	"
Carbon disulfide	**U**			50.0	"	"	"	"	"
Methylene chloride	**U**			50.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
1,1-Dichloroethane	**U**			50.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		50.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
2-Butanone	**U**			312	"	"	"	"	"
Bromochloromethane	**U**			50.0	"	"	"	"	"
Chloroform	**U**			50.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			50.0	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			50.0	"	"	"	"	"
Benzene	**U**			50.0	"	"	"	"	"
1,2-Dichloroethane	**U**			50.0	"	"	"	"	"
Trichloroethene	**U**			50.0	"	"	"	"	"
1,2-Dichloropropane	**U**			50.0	"	"	"	"	"
Dibromomethane	**U**			50.0	"	"	"	"	"
Bromodichloromethane	**U**			50.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			50.0	"	"	"	"	"
Tetrachloroethene	**U**			50.0	"	"	"	"	"
1,3-Dichloropropane	**U**			50.0	"	"	"	"	"
2-Hexanone	**U**			125	"	"	"	"	"
Dibromochloromethane	**U**			50.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			50.0	"	"	"	"	"
Chlorobenzene	**U**			50.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200910 (2009007-09RE2) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	**U**			50.0	ug/L	25	B20I014	Sep-15-20	Sep-16-20
Bromoform	**U**			50.0	"	"	"	"	"
Isopropylbenzene	**90.0**			50.0	"	"	"	"	"
Bromobenzene	**U**			50.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			50.0	"	"	"	"	"
n-Propylbenzene	**129**			50.0	"	"	"	"	"
2-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**202**			50.0	"	"	"	"	"
4-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
tert-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**622**			50.0	"	"	"	"	"
sec-Butylbenzene	**U**			50.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			50.0	"	"	"	"	"
p-Isopropyltoluene	**U**			50.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			50.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			50.0	"	"	"	"	"
n-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			50.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			50.0	"	"	"	"	"
Hexachlorobutadiene	**U**			50.0	"	"	"	"	"
Naphthalene	**55.2**			50.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			50.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.36	*93.1%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*100%*	*84-122*	"	"	"
Toluene-d8	9.73	*97.3%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.71	*97.1%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200910 (2009007-10RE1) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**42600**			1000	ug/L	500	B20I014	Sep-15-20	Sep-15-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.68	*96.3%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.69	*96.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.91	*89.1%*	*84-108*	"	"	"

A11-MW004A-200910 (2009007-10RE2) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), (LCS), J		50.0	ug/L	25	B20I014	Sep-15-20	Sep-15-20
Chloromethane	**U**	(ICAL), J		50.0	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		50.0	"	"	"	"	"
Bromomethane	**U**			50.0	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		50.0	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		50.0	"	"	"	"	"
1,1-Dichloroethene	**U**			50.0	"	"	"	"	"
Acetone	**U**			312	"	"	"	"	"
Carbon disulfide	**U**			50.0	"	"	"	"	"
Methylene chloride	**U**			50.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
1,1-Dichloroethane	**U**			50.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		50.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
2-Butanone	**U**			312	"	"	"	"	"
Bromochloromethane	**U**			50.0	"	"	"	"	"
Chloroform	**U**			50.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			50.0	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			50.0	"	"	"	"	"
Benzene	**U**			50.0	"	"	"	"	"
1,2-Dichloroethane	**U**			50.0	"	"	"	"	"
Trichloroethene	**U**			50.0	"	"	"	"	"
1,2-Dichloropropane	**U**			50.0	"	"	"	"	"
Dibromomethane	**U**			50.0	"	"	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200910 (2009007-10RE2) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromodichloromethane	**U**			50.0	ug/L	25	B20I014	Sep-15-20	Sep-15-20
cis-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			125	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			50.0	"	"	"	"	"
Tetrachloroethene	**U**			50.0	"	"	"	"	"
1,3-Dichloropropane	**U**			50.0	"	"	"	"	"
2-Hexanone	**U**			125	"	"	"	"	"
Dibromochloromethane	**U**			50.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			50.0	"	"	"	"	"
Chlorobenzene	**U**			50.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
Ethylbenzene	**365**			50.0	"	"	"	"	"
m+p-Xylene	**538**			100	"	"	"	"	"
o-Xylene	**66.6**			50.0	"	"	"	"	"
Styrene	**U**			50.0	"	"	"	"	"
Bromoform	**U**			50.0	"	"	"	"	"
Isopropylbenzene	**U**			50.0	"	"	"	"	"
Bromobenzene	**U**			50.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			50.0	"	"	"	"	"
n-Propylbenzene	**U**			50.0	"	"	"	"	"
2-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			50.0	"	"	"	"	"
4-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
tert-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			50.0	"	"	"	"	"
sec-Butylbenzene	**U**			50.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			50.0	"	"	"	"	"
p-Isopropyltoluene	**U**			50.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			50.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			50.0	"	"	"	"	"
n-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			50.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			50.0	"	"	"	"	"
Hexachlorobutadiene	**U**			50.0	"	"	"	"	"
Naphthalene	**U**			50.0	"	"	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200910 (2009007-10RE2) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,3-Trichlorobenzene	**U**			50.0	ug/L	25	B20I014	Sep-15-20	Sep-15-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.35	*92.9%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*101%*	*84-122*	"	"	"
Toluene-d8	9.49	*94.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.68	*96.8%*	*84-108*	"	"	"

A11-MW003-200910 (2009007-11RE1) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
m+p-Xylene	**2430**			100	ug/L	25	B20I014	Sep-15-20	Sep-15-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.95	*98.9%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.44	*94.4%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.63	*96.3%*	*84-108*	"	"	"

A11-MW003-200910 (2009007-11RE2) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), (LCS), J		10.0	ug/L	5	B20I014	Sep-15-20	Sep-15-20
Chloromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-200910 (2009007-11RE2) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
2-Butanone	**U**			62.5	ug/L	5	B20I014	Sep-15-20	Sep-15-20
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
Ethylbenzene	**201**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**28.3**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**28.2**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**34.8**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-200910 (2009007-11RE2) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,4-Trimethylbenzene	**113**			10.0	ug/L	5	B20I014	Sep-15-20	Sep-15-20
sec-Butylbenzene	**12.0**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**U**			10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.82	*97.6%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.57	*95.7%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.1	*101%*	*84-108*	"	"	"

December 2020 Data Validation Reports and Data Packages

Techlaw Document Controlled Number: 83139-1-23-612-DV-0016
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND AND EMERGENCY MANAGEMENT DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: January 11, 2021

FROM: Allison C Harvet, TechLaw Consultants, Inc.
Contractor, Environmental Services Assistance Team (ESAT)

THROUGH: Michelle Kerr
Region 5 ESAT Contracting Officer's Representative

TO: Data User: CDM Smith
Contact Person: John Grabs
Email address: grabsjc@cdmsmith.com

Stage_2B_Validation_Electronic_And_Manual (S2BVEM) Data Review Narrative

We have reviewed the data for the following case:

SITE Name: Southeast Rockford Groundwater, Area 11 (IL)

Case No: 49238 MA No: _____ SDG No: E3YH7

Number and Type of Samples: 11 waters (SVOA SIM)

Sample Numbers: E3YH1 – E3YH5, E3YH7 – E3YH9, E3YJ0 – E3YJ2

Laboratory: Pace Analytical Services, LLC Hrs. for Review:

Following are our findings:

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eleven (11) preserved water samples labeled E3YH1 through E3YH5, E3YH7 through E3YH9, and E3YJ0 through E3YJ2, were shipped to Pace Analytical Services LLC (EQI) located in West Columbia, SC. The samples were collected 12/01-02/2020 and received 12/02/2020 and 12/03/2020 intact. Four (4) samples; E3YH7, E3YJ0, E3YJ1 and E3YJ2, were received at the elevated temperature of 6.1°C. The remaining samples arrived properly cooled between 2.6°C and 4.1°C. All samples were analyzed according to CLP SOW SOM02.4, [Oct 2016] (and MA: 3054.0 – 1,4-Dioxane Analysis with Lower CRQL) and reviewed according to the QAPP, the September 2017 NFG for SOM02.4 (EPA-540-R-2017-002) and the Region 5 Organic CLP Validation SOP, DCN/SOP 83074-8-33-601-SO-1143.

Sample E3YH9 was designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

Sample E3YJ2 was identified as a field blank. Sample E3YH1 was identified as a field duplicate of sample E3YH2.

The sample results have been reviewed for compliance with the QAPP worksheets and all non-compliance are described in Section 17. – QAPP Compliance

'Only outliers and non-compliances are discussed in the narrative'.

1. PRESERVATION AND HOLDING TIMES

NONE FOUND.

2. GC/MS and GC/ECD INSTRUMENT PERFORMANCE CHECK

NONE FOUND.

3. INITIAL CALIBRATION

NONE FOUND.

4. INITIAL CALIBRATION VERIFICATION

NONE FOUND.

5. CONTINUING CALIBRATION

NONE FOUND.

6. BLANKS

NONE FOUND.

7. DEUTERATED MONITORING COMPOUNDS / SURROGATES

NONE FOUND.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following samples reported percent recovery below the QC criteria specified in MA: 3054.0 (15-120 %R). Detects in the unspiked sample, E3HY9(DL) is qualified as estimated J.

E3YH9MSD
1,4-Dioxane

The relative percent difference (RPD) between the following samples is outside the QC criteria specified in MA: 3054.0 (0-50 RPD). Detects in the unspiked sample, E3YH9(DL) is qualified as estimated J.

E3YH9MS, E3YH9MSD
1,4-Dioxane

9. CLEANUP PROCEDURES

NONE FOUND.

10. LABORATORY CONTROL SAMPLE

NONE FOUND.

11. INTERNAL STANDARD

NONE FOUND.

12. TARGET ANALYTE QUANTITATION LIMIT

Method – Semivolatiles by SIM

EXES-790
The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

E3YH2, E3YH3
1,4-Dioxane

13. TENTATIVELY IDENTIFIED COMPOUNDS

Not Validated for this Stage of Review.

14. SYSTEM PERFORMANCE

NONE FOUND.

15. FIELD QC SAMPLES

Review not required under specified validation stage.

16. SAMPLE RESULTS

The following samples reported analyte concentrations above the calibration range. No dilutions were performed as these samples are QC samples. Detects are qualified as estimated J.

E3YH9MS, E3YH9MSD
1,4-Dioxane

17. QAPP COMPLIANCE

The analytical package fulfilled the QAPP QC components requirements identified in the Southeast Rockford GW QAPP – Area 11.

The raw data package was missing the Form 3 for QC sample SLCS76.

Case No: 49238 SDG No: E3YH5
Site Name: Southeast Rockford Groundwater, Area 11 (IL) Laboratory: Pace (EQI)

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The Target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The Target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH1	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW007	pH: 8	Sample Date: 12/02/2020	Sample Time: 10:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.19	U	ug/L	0.19	U	1.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH2	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW007	pH: 8	Sample Date: 12/02/2020	Sample Time: 10:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.069	J	ug/L	0.069	J	1.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH3	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW004A	pH: 8	Sample Date: 12/02/2020	Sample Time: 15:00:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.15	J	ug/L	0.15	J	1.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH4	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW003	pH: 8	Sample Date: 12/02/2020	Sample Time: 08:45:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.6		ug/L	4.6	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH5	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW002	pH: 8	Sample Date: 12/02/2020	Sample Time: 13:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.1		ug/L	1.1	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH7	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW130A	pH: 8	Sample Date: 12/01/2020	Sample Time: 09:35:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.0		ug/L	4.0	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH8	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW006	pH: 8	Sample Date: 12/01/2020	Sample Time: 12:11:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.1		ug/L	4.1	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH9	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW005	pH: 8	Sample Date: 12/01/2020	Sample Time: 13:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.5	J	ug/L	4.5	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH9MS	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location:	pH: 8	Sample Date: 12/01/2020	Sample Time: 13:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	5.6	J	ug/L	5.6	E	1.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH9MSD	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location:	pH: 8	Sample Date: 12/01/2020	Sample Time: 13:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	4.5	J	ug/L	4.5	E	1.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YJ0	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW004B	pH: 8	Sample Date: 12/01/2020	Sample Time: 16:45:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	6.3		ug/L	6.3	D	5.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YJ1	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW001	pH: 8	Sample Date: 12/01/2020	Sample Time: 15:31:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	5.0		ug/L	5.0	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YJ2	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-FB001	pH: 8	Sample Date: 12/01/2020	Sample Time: 17:05:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.19	U	ug/L	0.19	U	1.0	YES	S2BVEM

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2012003
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 12/01/20
Analysis/Methods:

Wet Chemistry:
Anions - EPA 300.0

Samples in SDG:

Lab ID	Sample Number
2012003-01	A11-MW130A-201201
2012003-02	A11-MW006-201201
2012003-03	A11-MW005-201201
2012003-04	A11-MW004B-201201
2012003-05	A11-MW001-201201
2012003-06	A11-FB001-201201

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Anions 300.0)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
E20L003-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**Yes**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20L003-BLK1				
Nitrogen, Nitrate	Nondetect			
Sulfate	Nondetect			

ICB/CCB		Concentration	MDL / PQL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.10 / 0.12		
CCB1	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.10 / 0.12	None	Sample results nondetect or > RL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-201201	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20L003-MS1				
Nitrogen, Nitrate	Acceptable	80-120		
Sulfate	68%	80-120	**J- / UJ**	**All samples**

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20L003-BS1				
Nitrogen, Nitrate	Acceptable	90-110		
Sulfate	Acceptable	90-110		

ICV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20L003-MRL1				
Nitrogen, Nitrate	Acceptable			
Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	**Yes**		
Were holding times met?	**Yes**		
Was preservation criteria met? (0° C - 6° C)	**Yes**		
Were Chain-of-Custody records complete and provided in data package?		**No**	

Comments (note deviations): The cooler temperature was 0.3 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability: Yes No N/A

Were analytical procedures and methods followed as defined in the QAPP or field change documentation? **Yes**

Comments (note deviations):

Completeness (90%): Yes No N/A

Are all data in this SDG usable? **Yes**

Comments (note deviations):

Sensitivity: Yes No N/A

Are MDLs present and reported? **Yes**

Do the reporting limits meet project requirements? **Yes**

Comments (note deviations):

Comment:

Data is usable with appropriate qualifiers applied.

Data Validator: *Kristine Molloy* Date: *1/19/2021*

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Nov-09-20 15:25

Anions by Ion Chromatography, EPA 300.0 (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200910 (2009007-01) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**U**			0.12	mg/L	1	B20I013	Sep-11-20	Sep-11-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW007-200910 (2009007-02) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**2.96**			0.12	mg/L	1	B20I013	Sep-11-20	Sep-11-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW004A-200910 (2009007-03) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**33.4**			0.12	mg/L	1	B20I013	Sep-11-20	Sep-11-20
Nitrate - NO3	**1.93**			0.12	"	"	"	"	"

A11-MW007-200910-D (2009007-04) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**2.93**			0.12	mg/L	1	B20I013	Sep-11-20	Sep-11-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW003-200910-D (2009007-05) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**11.3**			0.12	mg/L	1	B20I013	Sep-11-20	Sep-11-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Nov-09-20 15:25

Notes and Definitions

U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2012005
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 12/02/20
Analysis/Methods:

Wet Chemistry:
Anions - EPA 300.0

Samples in SDG:

Lab ID	Sample Number
2012005-01	A11-MW007-201201-D
2012005-02	A11-MW007-201201
2012005-03	A11-MW004A-201201
2012005-04	A11-MW003-201201
2012005-05	A11-MW002-201201

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Anions 300.0)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-201201	**A11-MW007-201201-D**			
			Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
E20L006-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20L006-BLK1				
Nitrogen, Nitrate	Nondetect			
Sulfate	Nondetect			

ICB/CCB		Concentration	MDL / PQL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.1 / 0.12	None	Sample results > RL
CCB1	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.1 / 0.12	None	Sample results > RL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20L006-MS1				
Nitrogen, Nitrate	Acceptable	80-120		
Sulfate	Acceptable	80-120		

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20L006-BS1				
Nitrogen, Nitrate	Acceptable	90-110		
Sulfate	Acceptable	90-110		

ICV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20L006-MRL1				
Nitrogen, Nitrate	Acceptable			
Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?		No	

Comments (note deviations): The cooler temperature was 0.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability: Yes No N/A

Were analytical procedures and methods followed as defined in the QAPP or field change documentation? **Yes**

Comments (note deviations):

Completeness (90%): Yes No N/A

Are all data in this SDG usable? **Yes**

Comments (note deviations):

Sensitivity: Yes No N/A

Are MDLs present and reported? **Yes**

Do the reporting limits meet project requirements? **Yes**

Comments (note deviations):

Comment:

Data is usable as reported.

Data Validator: *Kristine Molloy* Date: *1/20/2021*

Data Reviewer: Cherie Zakowski Date: 1/23/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-07-20 16:18

Anions by Ion Chromatography, EPA 300.0 (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-201201 (2012003-01) **Matrix: Water** **Sampled: Dec-01-20 09:35** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**17.3**			0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**6.26**			0.12	"	"	"	"	"

A11-MW006-201201 (2012003-02) **Matrix: Water** **Sampled: Dec-01-20 12:11** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**5.56**			0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW005-201201 (2012003-03) **Matrix: Water** **Sampled: Dec-01-20 13:50** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**33.7**	(MS), L		0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**14.1**			0.12	"	"	"	"	"

A11-MW004B-201201 (2012003-04) **Matrix: Water** **Sampled: Dec-01-20 16:45** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**18.9**			0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**5.15**			0.12	"	"	"	"	"

A11-MW001-201201 (2012003-05) **Matrix: Water** **Sampled: Dec-01-20 05:31** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**30.4**			0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**11.4**			0.12	"	"	"	"	"

A11-FB001-201201 (2012003-06) **Matrix: Water** **Sampled: Dec-01-20 17:01** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**U**			0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-07-20 16:18

Notes and Definitions

L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
(MS)	Matrix spike recovery criteria not met for this analyte
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 20012003_2012005
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 12/01/2020 & 12/02/2020
Analysis/Methods:

Wet Chemistry:
Alkalinity M2320 B

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2012003-01	A11-MW130A-201201	2012005-01	A11-MW007-201201-D
2012003-02	A11-MW006-201201	2012005-02	A11-MW007-201201
2012003-03	A11-MW005-201201	2012005-03	A11-MW004A-201201
2012003-04	A11-MW004B-201201	2012005-04	A11-MW003-201201
2012003-05	A11-MW001-201201	2012005-05	A11-MW002-201201
2012003-06	A11-FB001-201201		

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Alkalinity 2320B)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**Sample A11-MW007-201201**	**Duplicate A11-MW007-201201-D**	**%RPD**	**Qualifiers**	**Associated Samples**
			Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
B20L009-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**N/A**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**Yes**
Was the ICAL criteria met?			**N/A**
Was the CCV criteria met?			**N/A**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
B20L009-BLK1	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-201201	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
N/A				

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
B20L009-SRM1	Acceptable			

ICV	%R	Limits	Qualifiers	Associated Samples
N/A				

CCV	%R	Limits	Qualifiers	Associated Samples
N/A				

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?		No	

Comments (note deviations): The cooler temperature was 0.3° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable as reported.

Data Validator: Kristine Molloy Date: 1/20/2021/

Data Reviewer: Cherie Zakowski Date: 1/23/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-18-20 12:33

Alkalinity by SM 2320B
US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-201201 (2012003-01) **Matrix: Water** **Sampled: Dec-01-20 09:35** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**350**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW006-201201 (2012003-02) **Matrix: Water** **Sampled: Dec-01-20 12:11** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**450**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW005-201201 (2012003-03) **Matrix: Water** **Sampled: Dec-01-20 13:50** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**380**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW004B-201201 (2012003-04) **Matrix: Water** **Sampled: Dec-01-20 16:45** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**340**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW001-201201 (2012003-05) **Matrix: Water** **Sampled: Dec-01-20 05:31** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**350**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-FB001-201201 (2012003-06) **Matrix: Water** **Sampled: Dec-01-20 17:01** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**U**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW007-201201-D (2012005-01) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**540**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW007-201201 (2012005-02) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**540**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-18-20 12:33

Alkalinity by SM 2320B

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-201201 (2012005-03) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**330**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW003-201201 (2012005-04) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**390**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW002-201201 (2012005-05) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**440**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-18-20 12:33

Notes and Definitions

*	This Quality Control measure meets the requirements of the CRL SOP for this analyte.
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2012003
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 12/01/20
Analysis/Methods:

Wet Chemistry:
Anions - EPA 300.0

Samples in SDG:

Lab ID	Sample Number
2012003-01	A11-MW130A-201201
2012003-02	A11-MW006-201201
2012003-03	A11-MW005-201201
2012003-04	A11-MW004B-201201
2012003-05	A11-MW001-201201
2012003-06	A11-FB001-201201

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Anions 300.0)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
E20L003-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**Yes**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20L003-BLK1				
Nitrogen, Nitrate	Nondetect			
Sulfate	Nondetect			

ICB/CCB		Concentration	MDL / PQL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.10 / 0.12		
CCB1	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.10 / 0.12	None	Sample results nondetect or > RL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-201201	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20L003-MS1				
Nitrogen, Nitrate	Acceptable	80-120		
Sulfate	68%	80-120	**J- / UJ**	**All samples**

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20L003-BS1				
Nitrogen, Nitrate	Acceptable	90-110		
Sulfate	Acceptable	90-110		

ICV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20L003-MRL1				
Nitrogen, Nitrate	Acceptable			
Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	**Yes**		
Were holding times met?	**Yes**		
Was preservation criteria met? (0° C - 6° C)	**Yes**		
Were Chain-of-Custody records complete and provided in data package?		**No**	

Comments (note deviations): The cooler temperature was 0.3 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability: Yes No N/A

Were analytical procedures and methods followed as defined in the QAPP or field change documentation? **Yes**

Comments (note deviations):

Completeness (90%): Yes No N/A

Are all data in this SDG usable? **Yes**

Comments (note deviations):

Sensitivity: Yes No N/A

Are MDLs present and reported? **Yes**

Do the reporting limits meet project requirements? **Yes**

Comments (note deviations):

Comment:

Data is usable with appropriate qualifiers applied.

Data Validator: *Kristine Molloy* Date: *1/19/2021*

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-07-20 16:52

Anions by Ion Chromatography, EPA 300.0 (modified)
US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201-D (2012005-01) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**2.56**			0.12	mg/L	1	B20L006	Dec-03-20	Dec-03-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW007-201201 (2012005-02) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**2.45**			0.12	mg/L	1	B20L006	Dec-03-20	Dec-03-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW004A-201201 (2012005-03) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**42.9**			0.12	mg/L	1	B20L006	Dec-03-20	Dec-03-20
Nitrate - NO3	**1.66**			0.12	"	"	"	"	"

A11-MW003-201201 (2012005-04) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**8.52**			0.12	mg/L	1	B20L006	Dec-03-20	Dec-03-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW002-201201 (2012005-05) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**1.09**			0.12	mg/L	1	B20L006	Dec-03-20	Dec-03-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-07-20 16:52

Notes and Definitions

U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2012003, 2012005
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 12/01/2020 & 12/02/2020
Analysis/Methods:

Volatile Organic Compounds (VOCs) 8260

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2012003-01RE1	A11-MW130A-201201	2012005-01RE1	A11-MW007-201201-D
2012003-02RE1	A11-MW006-201201	2012005-02RE1	A11-MW007-201201
2012003-03RE1	A11-MW005-201201	2012005-03RE2	A11-MW004A-201201
2012003-04RE1	A11-MW004B-201201	2012005-04RE1	A11-MW003-201201
2012003-05RE1	A11-MW001-201201	2012005-05RE2	A11-MW002-201201
2012003-06	A11-FB001-201201	2012005-06RE1	A11-TB002-201201
2012003-07	A11-TB001-201201		

Data validation was performed in accordance with the specific analytical method and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260 / 1,4-Dioxane 8000D

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?		**No**	
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**		
Laboratory Control Spike Duplicates RPD within limits?		**No**	
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates		**Sample A11-MW007-201201**	**Duplicate A11-MW007-201201-D**	**%RPD**	**Qualifiers**	**Associated Samples**
	Isopropylbenzene	109	486	127%	**J**	
	n-Propylbenzene	104	454	125%	**J**	
	sec-Butylbenzene	17.5	68.4	74%	**J**	**A11-MW007-201201 & A11-MW007-201201-D**
	1,3,5-Trimethylbenzene	14.4	56.7	NC	**J***	
	Benzene	10 U	44.3	NC	**J / UJ***	
	Naphthalene	34	97.3	NC	**J***	
	n-Butylbenzene	19.9	66.9	NC	**J***	
	1,2,4-Trimethylbenzene	131	169	NC	None	Sample results < 5xs RL; ABS Diff. < RL

* Sample results < 5xs RL; ABS Diff. > RL

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
B20L005-MS1 / MSD1 (2012003-03RE1)	Acceptable			

LCS/LCSD		**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
B20L004-BS1 / BSD1	Acetone	23.5	20%	**J****	**2012003-06, 2012003-07**
B20L005-BS1 / BSD1	2,2-Dichloropropane	23.7	20%	**J****	**2012003-01RE1 through 2012003-05RE1**
B20L008-BS1 / BSD1		Acceptable			
B20L008-BS2 / BSD2	2,2-Dichloropropane	57.8	20%	**J****	**2012005-03RE2, 2012005-05RE2**

**Qualification required for detected results only - associated results nondetect - no qualification required

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**		
Laboratory Control Sample criteria met?		**No**	
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?	**Yes**		
Was the ICAL criteria met?	**Yes**		
Was the CCV criteria met?	**Yes**		
Was the Tuning criteria met?	**Yes**		
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**		
Were the Internal Standard areas within ± 50 - 150%?	**Yes**		

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
B20L004-BLK1	Nondetect			
B20L004-BLK2	Nondetect			
B20L005-BLK1	Nondetect			
B20L005-BLK2	Nondetect			
B20L008-BLK1	Nondetect			
B20L008-BLK2	Nondetect			

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
A11-FB001-201201	Nondetect			
A11-TB001-201201	Nondetect			
A11-TB001-201201	Nondetect			

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
	Acceptable			

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
B20L005-MS1 / MSD1 (2012003-03RE1)	Acceptable			

LCS/LCSD		**%R**	**Limits**	**Qualifiers**	**Associated Samples**
B20L004-BS1 / BSD1		Acceptable			
B20L005-BS1 / BSD1		Acceptable			
B20L005-BS2		Acceptable			
B20L008-BS1 / BSD1		Acceptable			
B20L008-BS2/ BSD2	2,2-Dichloropropane	71.5 / 39.5	70-130	**J / UJ**	**2012005-03RE2, 2012005-05RE2**

ICAL	**RRF**	**%RSD**	**Limits**	**Qualifiers**	**Associated Samples**
12/1/2020 11:44	Acceptable	Acceptable			

ICV / CCV	**RRF**	**%D**	**Limits**	**Qualifiers**	**Associated Samples**
ICV					
12/1/2020 3:28	Acceptable	Acceptable			
CCV					
12/2/2020 13:34	Acceptable	Acceptable			
12/2/2020 18:26	Acceptable	Acceptable			
12/3/2020 9:03	Acceptable	Acceptable			
12/3/2020 13:44	Acceptable	Acceptable			
12/3/2020 19:35	Acceptable	Acceptable			
12/4/2020 12:40	Acceptable	Acceptable			
12/4/2020 18:54	Acceptable	Acceptable			
12/5/2020 1:58	Acceptable	Acceptable			
12/5/2020 9:28	Acceptable	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20L005-MRL1	Acceptable			

Tune
Acceptable

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
		Acceptable		

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was 0.30 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:

As stated in the case narrative, sample 2012003-03 vial B was not acid preserved, but was analyzed within 7 days of sampling, All other samples were properly preserved (acidification in field) and met hold time (14 days) criteria.

As stated in the case narrative, samples were first screened at a 50x dilution and some re-injections were required. Each analyte is reported at the lowest dilution factor for which the analyte concentration remained within calibration range.

As stated in the case narrative, no matrix spike was analyzed for the samples associated with batch B2L008 due to insufficient number of vials.

Case narrative indicates co-elution affected the concentration of n-butylbenzene, n-Butylbenzene has been flagged as an estimated concentration (J) when detected above the reporting limit.

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 5/3/2021

Data Reviewer: Cherie Zakowski Date: 5/6/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-201201 (2012003-01RE1) **Matrix: Water** **Sampled: Dec-01-20 09:35** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**3.77**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**3.51**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-201201 (2012003-01RE1) **Matrix: Water** **Sampled: Dec-01-20 09:35** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chlorobenzene	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.57	*95.1%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.66	*96.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.86	*98.6%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-201201 (2012003-02RE1) **Matrix: Water** **Sampled: Dec-01-20 12:11** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**2.82**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-201201 (2012003-02RE1) **Matrix: Water** **Sampled: Dec-01-20 12:11** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.6	*105%*	*84-122*	"	"	"
Toluene-d8	9.95	*99.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.2	*102%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-201201 (2012003-03RE1) **Matrix: Water** **Sampled: Dec-01-20 13:50** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**7.01**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**4.90**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-201201 (2012003-03RE1) **Matrix: Water** **Sampled: Dec-01-20 13:50** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.75	*96.9%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*100%*	*84-122*	"	"	"
Toluene-d8	10.1	*101%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.55	*95.5%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-201201 (2012003-04RE1) **Matrix: Water** **Sampled: Dec-01-20 16:45** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**5.67**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**5.61**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-201201 (2012003-04RE1) **Matrix: Water** **Sampled: Dec-01-20 16:45** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.88	*98.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.87	*98.7%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.68	*96.8%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-201201 (2012003-05RE1) **Matrix: Water** **Sampled: Dec-01-20 05:31** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**4.94**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**9.02**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**2.15**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-201201 (2012003-05RE1) **Matrix: Water** **Sampled: Dec-01-20 05:31** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.71	*96.5%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*100%*	*84-122*	"	"	"
Toluene-d8	10.0	*100%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.69	*96.9%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-201201 (2012003-06) **Matrix: Water** **Sampled: Dec-01-20 17:01** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L004	Dec-02-20	Dec-02-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-201201 (2012003-06) **Matrix: Water** **Sampled: Dec-01-20 17:01** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L004	Dec-02-20	Dec-02-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.83	*97.8%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.94	*98.7%*	*84-122*	"	"	"
Toluene-d8	9.80	*98.0%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.99	*99.9%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-201201 (2012003-07) **Matrix: Water** **Sampled: Dec-01-20 09:00** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L004	Dec-02-20	Dec-02-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-201201 (2012003-07) **Matrix: Water** **Sampled: Dec-01-20 09:00** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L004	Dec-02-20	Dec-02-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*100%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.86	*98.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.87	*98.7%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201-D (2012005-01) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**3660**			100	ug/L	50	B20L005	Dec-02-20	Dec-03-20
m+p-Xylene	**8100**			200	"	"	"	"	"
1,2,4-Trimethylbenzene	**169**			100	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.76	*97.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*99.8%*	*84-122*	"	"	"
Toluene-d8	9.78	*97.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.83	*98.3%*	*84-108*	"	"	"

A11-MW007-201201-D (2012005-01RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
Chloromethane	**U**			10.0	"	"	"	"	"
Vinyl chloride	**U**			10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**			10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
2-Butanone	**U**			62.5	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**44.3**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201-D (2012005-01RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dibromomethane	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**486**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**454**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**56.7**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
sec-Butylbenzene	**68.4**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**66.9**	CustomFlag, J		10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**97.3**			10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201-D (2012005-01RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.97			*99.1%*		*73-124*	*B20L008*	*Dec-04-20*	*Dec-04-20*
1,2-Dichloroethane-d4	10.4			*104%*		*84-122*	"	"	"
Toluene-d8	10.3			*103%*		*88-108*	"	"	"
4-Bromofluorobenzene	9.19			*91.9%*		*84-108*	"	"	"

A11-MW007-201201 (2012005-02) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**3300**			100	ug/L	50	B20L005	Dec-02-20	Dec-03-20
m+p-Xylene	**7390**			200	"	"	"	"	"
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2			*102%*		*73-124*	"	"	"
1,2-Dichloroethane-d4	10.3			*102%*		*84-122*	"	"	"
Toluene-d8	10.1			*101%*		*88-108*	"	"	"
4-Bromofluorobenzene	9.78			*97.8%*		*84-108*	"	"	"

A11-MW007-201201 (2012005-02RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
Chloromethane	**U**			10.0	"	"	"	"	"
Vinyl chloride	**U**			10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**			10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
2-Butanone	**U**			62.5	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201 (2012005-02RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromochloromethane	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**109**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**104**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**14.4**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**131**			10.0	"	"	"	"	"
sec-Butylbenzene	**17.5**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201 (2012005-02RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3-Dichlorobenzene	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**19.9**	B, CustomFlag, J		10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**34.0**	B		10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.0	*99.6%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.3	*102%*	*84-122*	"	"	"
Toluene-d8	9.82	*98.2%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.25	*92.5%*	*84-108*	"	"	"

A11-MW004A-201201 (2012005-03RE1) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**34200**			1250	ug/L	625	B20L008	Dec-04-20	Dec-04-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.83	*97.7%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.6	*105%*	*84-122*	"	"	"
Toluene-d8	10.1	*101%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.78	*97.8%*	*84-108*	"	"	"

A11-MW004A-201201 (2012005-03RE2) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
Chloromethane	**U**			50.0	"	"	"	"	"
Vinyl chloride	**U**			50.0	"	"	"	"	"
Bromomethane	**U**			50.0	"	"	"	"	"
Chloroethane	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-201201 (2012005-03RE2) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Trichlorofluoromethane	**U**			50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
1,1-Dichloroethene	**U**			50.0	"	"	"	"	"
Acetone	**U**			312	"	"	"	"	"
Carbon disulfide	**U**			50.0	"	"	"	"	"
Methylene chloride	**U**			50.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
1,1-Dichloroethane	**U**			50.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		50.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
2-Butanone	**U**			312	"	"	"	"	"
Bromochloromethane	**U**			50.0	"	"	"	"	"
Chloroform	**U**			50.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			50.0	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			50.0	"	"	"	"	"
Benzene	**U**			50.0	"	"	"	"	"
1,2-Dichloroethane	**U**			50.0	"	"	"	"	"
Trichloroethene	**U**			50.0	"	"	"	"	"
1,2-Dichloropropane	**U**			50.0	"	"	"	"	"
Dibromomethane	**U**			50.0	"	"	"	"	"
Bromodichloromethane	**U**			50.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			125	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			50.0	"	"	"	"	"
Tetrachloroethene	**U**			50.0	"	"	"	"	"
1,3-Dichloropropane	**U**			50.0	"	"	"	"	"
2-Hexanone	**U**			125	"	"	"	"	"
Dibromochloromethane	**U**			50.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			50.0	"	"	"	"	"
Chlorobenzene	**U**			50.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
Ethylbenzene	**331**			50.0	"	"	"	"	"
m+p-Xylene	**489**			100	"	"	"	"	"
o-Xylene	**52.2**			50.0	"	"	"	"	"
Styrene	**U**			50.0	"	"	"	"	"
Bromoform	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-201201 (2012005-03RE2) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Isopropylbenzene	**U**			50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
Bromobenzene	**U**			50.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			50.0	"	"	"	"	"
n-Propylbenzene	**U**			50.0	"	"	"	"	"
2-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			50.0	"	"	"	"	"
4-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
tert-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			50.0	"	"	"	"	"
sec-Butylbenzene	**U**			50.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			50.0	"	"	"	"	"
p-Isopropyltoluene	**U**			50.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			50.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			50.0	"	"	"	"	"
n-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			50.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			50.0	"	"	"	"	"
Hexachlorobutadiene	**U**			50.0	"	"	"	"	"
Naphthalene	**U**			50.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			50.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.97	*99.1%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.5	*104%*	*84-122*	"	"	"
Toluene-d8	10.3	*103%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.76	*97.6%*	*84-108*	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-201201 (2012005-04) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
m+p-Xylene	**6310**			200	ug/L	50	B20L005	Dec-02-20	Dec-03-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.86	*98.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.68	*96.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.52	*95.2%*	*84-108*	"	"	"

A11-MW003-201201 (2012005-04RE1) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
Chloromethane	**U**			10.0	"	"	"	"	"
Vinyl chloride	**U**			10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**			10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
2-Butanone	**U**			62.5	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-201201 (2012005-04RE1) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,3-Dichloropropene	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
Ethylbenzene	**256**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**38.5**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**37.3**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**55.0**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**178**			10.0	"	"	"	"	"
sec-Butylbenzene	**15.0**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**13.1**	B, CustomFlag, J		10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**16.6**	B		10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-201201 (2012005-04RE1) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,3-Trichlorobenzene	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.81	*97.5%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.9	*108%*	*84-122*	"	"	"
Toluene-d8	9.91	*99.1%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.79	*97.9%*	*84-108*	"	"	"

A11-MW002-201201 (2012005-05RE1) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**33200**			1250	ug/L	625	B20L008	Dec-04-20	Dec-04-20
Ethylbenzene	**10200**			1250	"	"	"	"	"
m+p-Xylene	**31900**			2500	"	"	"	"	"
o-Xylene	**6140**			1250	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*100%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.7	*106%*	*84-122*	"	"	"
Toluene-d8	9.89	*98.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.65	*96.5%*	*84-108*	"	"	"

A11-MW002-201201 (2012005-05RE2) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
Chloromethane	**U**			50.0	"	"	"	"	"
Vinyl chloride	**U**			50.0	"	"	"	"	"
Bromomethane	**U**			50.0	"	"	"	"	"
Chloroethane	**U**			50.0	"	"	"	"	"
Trichlorofluoromethane	**U**			50.0	"	"	"	"	"
1,1-Dichloroethene	**U**			50.0	"	"	"	"	"
Acetone	**U**			312	"	"	"	"	"
Carbon disulfide	**U**			50.0	"	"	"	"	"
Methylene chloride	**U**			50.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
1,1-Dichloroethane	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-201201 (2012005-05RE2) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
2,2-Dichloropropane	**U**	(LCS), J		50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
cis-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
2-Butanone	**U**			312	"	"	"	"	"
Bromochloromethane	**U**			50.0	"	"	"	"	"
Chloroform	**U**			50.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			50.0	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			50.0	"	"	"	"	"
Benzene	**U**			50.0	"	"	"	"	"
1,2-Dichloroethane	**U**			50.0	"	"	"	"	"
Trichloroethene	**U**			50.0	"	"	"	"	"
1,2-Dichloropropane	**U**			50.0	"	"	"	"	"
Dibromomethane	**U**			50.0	"	"	"	"	"
Bromodichloromethane	**U**			50.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			125	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			50.0	"	"	"	"	"
Tetrachloroethene	**U**			50.0	"	"	"	"	"
1,3-Dichloropropane	**U**			50.0	"	"	"	"	"
2-Hexanone	**U**			125	"	"	"	"	"
Dibromochloromethane	**U**			50.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			50.0	"	"	"	"	"
Chlorobenzene	**U**			50.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
Styrene	**U**			50.0	"	"	"	"	"
Bromoform	**U**			50.0	"	"	"	"	"
Isopropylbenzene	**78.1**			50.0	"	"	"	"	"
Bromobenzene	**U**			50.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			50.0	"	"	"	"	"
n-Propylbenzene	**87.4**			50.0	"	"	"	"	"
2-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**161**			50.0	"	"	"	"	"
4-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
tert-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**588**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-201201 (2012005-05RE2) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
sec-Butylbenzene	**U**			50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
1,3-Dichlorobenzene	**U**			50.0	"	"	"	"	"
p-Isopropyltoluene	**U**			50.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			50.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			50.0	"	"	"	"	"
n-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			50.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			50.0	"	"	"	"	"
Hexachlorobutadiene	**U**			50.0	"	"	"	"	"
Naphthalene	**58.5**	B		50.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			50.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.0	*99.5%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.6	*105%*	*84-122*	"	"	"
Toluene-d8	10.5	*105%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.43	*94.3%*	*84-108*	"	"	"

A11-TB002-201201 (2012005-06RE1) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L008	Dec-04-20	Dec-04-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-201201 (2012005-06RE1) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloroform	**U**			2.00	ug/L	1	B20L008	Dec-04-20	Dec-04-20
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"

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77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
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Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-201201 (2012005-06RE1) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
sec-Butylbenzene	**U**			2.00	ug/L	1	B20L008	Dec-04-20	Dec-04-20
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.82	*97.7%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.92	*99.2%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.37	*93.7%*	*84-108*	"	"	"

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 680-192276
Laboratory: Eurofins Test America

Matrix: Groundwater
Collection date: 12/1/2020 & 12/2/2020
Analysis/Methods:

Dissolved Gases - Methane - RSK-175

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
680-192276-1	A11-MW006-201201	680-192276-7	A11-MW003-201202
680-192276-2	A11-MW130A-201201	680-192276-8	A11-MW007-201202
680-192276-3	A11-MW005-201201	680-192276-9	A11-MW007-201202-D
680-192276-4	A11-MW001-201201	680-192276-10	A11-MW002-201202
680-192276-5	A11-MW004B-201201	680-192276-11	A11-MW004A-201202
680-192276-6	A11-FB01-201201	680-192276-12	A11-TB01-201201

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Methane (RSK-175)

Precision:	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			Yes
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			Yes
Laboratory Control Spike Duplicates RPD within limits?			Yes
Laboratory Duplicate RPDs within limits?			N/A

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
	A11-MW007-201202	A11-MW007-201202-D	Acceptable		

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
MS/MSD 680-192276-3	Acceptable			

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
LCS 680-647488/ 6 / 7	Acceptable			
LCS 680-647488/ 3 / 4	Acceptable			

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			Yes
Laboratory Control Sample criteria met?			Yes
Were the Laboratory Method Blank results all < RL?			Yes
Were the Field Blanks results all < RL?			No
Was the ICAL criteria met?			Yes
Was the CCV criteria met?			Yes
Was the Tuning criteria met?			N/A
Were the Surrogate % recoveries within laboratory determined control limits?			N/A
Were the Internal Standard areas within ± 50 - 150%?			N/A

Comments (note deviations):

Blanks	Concentration (mg/L)	MDL /PQL	Qualifiers	Associated Samples
MB 680-647488/ 8	Nondetect			

Field Blank		Concentration	MDL /PQL	Qualifiers	Associated Samples
A11-TB01-201201	Methane	0.47 J	0.29 / 0.58	U-RL	680-192276-3
A11-FB01-201201	Methane	0.52 J	0.29 / 0.58	U-RL	680-192276-3

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
MS/MSD 680-192276-3	Acceptable			

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
LCS 680-647488/ 6 / 7	Acceptable			
LCS 680-647488/ 3 / 4	Acceptable			

ICAL	RRF	%RSD	Qualifiers	Associated Samples
2/17/2020 8:45	Acceptable	Acceptable		
3/04/2020 9:12	Acceptable	Acceptable		

ICV / CCV	RRF	%D	Limits	Qualifiers	Associated Samples
ICV					
3/04/2020 11:29	Acceptable	Acceptable			
CCV					
12/08/2020 17:37	Acceptable	Acceptable			
12/08/2020 17:12	Acceptable	Acceptable			
12/08/2020 20:20	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was 4.1° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:

As stated in the case narrative, the MS/MSD was spiked at the concentration range meant for the TCD detector. The methane results for the FID detector were over the calibration range as a result of the error. The recovery areas are within limits for both FID and TCD detectors. Both the FID and TCD detectors are being reported for the MS/MSD.

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 5/2/2021

Data Reviewer: Cherie Zakowski Date: 5/4/2021

Detection Summary

Client: CDM Smith, Inc.
Job ID: 680-192276-1
Project/Site: Methane Analysis - SE Rockford Area 11

Client Sample ID: A11-MW006-201201 — Lab Sample ID: 680-192276-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	8100		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW130A-201201 — Lab Sample ID: 680-192276-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	1.4		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW005-201201 — Lab Sample ID: 680-192276-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.48	J	0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW001-201201 — Lab Sample ID: 680-192276-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	11		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW004B-201201 — Lab Sample ID: 680-192276-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	20		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-FB01-201201 — Lab Sample ID: 680-192276-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.52	J	0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW003-201202 — Lab Sample ID: 680-192276-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	6600		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW007-201202 — Lab Sample ID: 680-192276-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	31000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW007-201202-D — Lab Sample ID: 680-192276-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	29000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW002-201202 — Lab Sample ID: 680-192276-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	31000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW004A-201202 — Lab Sample ID: 680-192276-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	250		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-TB01-201201 — Lab Sample ID: 680-192276-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.47	J	0.58	0.29	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: A11-MW006-201201 — Lab Sample ID: 680-192276-1

Date Collected: 12/01/20 12:11 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	8100		390	39	ug/L			12/08/20 16:46	1

Client Sample ID: A11-MW130A-201201 — Lab Sample ID: 680-192276-2

Date Collected: 12/01/20 09:35 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1.4		0.58	0.29	ug/L			12/08/20 16:59	1

Client Sample ID: A11-MW005-201201 — Lab Sample ID: 680-192276-3

Date Collected: 12/01/20 13:50 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.48	J	0.58	0.29	ug/L			12/08/20 17:45	1

Client Sample ID: A11-MW001-201201 — Lab Sample ID: 680-192276-4

Date Collected: 12/01/20 15:31 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	11		0.58	0.29	ug/L			12/08/20 18:24	1

Client Sample ID: A11-MW004B-201201 — Lab Sample ID: 680-192276-5

Date Collected: 12/01/20 16:45 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	20		0.58	0.29	ug/L			12/08/20 18:36	1

Client Sample ID: A11-FB01-201201 — Lab Sample ID: 680-192276-6

Date Collected: 12/01/20 17:05 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.52	J	0.58	0.29	ug/L			12/08/20 18:49	1

Client Sample ID: A11-MW003-201202 — Lab Sample ID: 680-192276-7

Date Collected: 12/02/20 08:45 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	6600		390	39	ug/L			12/08/20 19:02	1

Client Sample ID: A11-MW007-201202 — Lab Sample ID: 680-192276-8

Date Collected: 12/02/20 10:50 **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	31000		390	39	ug/L			12/08/20 19:15	1

Client Sample ID: A11-MW007-201202-D — Lab Sample ID: 680-192276-9

Date Collected: 12/02/20 10:50 **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	29000		390	39	ug/L			12/08/20 19:28	1

Client Sample ID: A11-MW002-201202 — Lab Sample ID: 680-192276-10

Date Collected: 12/02/20 13:10 **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	31000		390	39	ug/L			12/08/20 19:41	1

Client Sample ID: A11-MW004A-201202 — Lab Sample ID: 680-192276-11

Date Collected: 12/02/20 15:00 **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	250		0.58	0.29	ug/L			12/08/20 19:54	1

Client Sample ID: A11-TB01-201201 — Lab Sample ID: 680-192276-12

Date Collected: 12/01/20 08:00 **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.47	J	0.58	0.29	ug/L			12/08/20 20:07	1

Default Detection Limits

Client: CDM Smith, Inc.
Job ID: 680-192276-1
Project/Site: Methane Analysis - SE Rockford Area 11

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units
Methane	0.58	0.29	ug/L
Methane (TCD)	390	39	ug/L